



State of Utah

JON M. HUNTSMAN, JR.
Governor

GARY R. HERBERT
Lieutenant Governor

Department of Administrative Services

KIMBERLY K. HOOD
Executive Director

Division of Facilities Construction and Management

DAVID G. BUXTON
Director

ADDENDUM No. 2

Date: January 22, 2009

To: Contractors

From: Mike Ambre, Project Manager, DFCM

Reference: Murdock Guest House Adaptive Re-Use
Utah Valley University – Orem, Utah
DFCM Project No. 08307790

Subject: **Addendum No. 2**

Pages	Addendum Cover Sheet	1 page
	<u>A/E Addendum</u>	<u>25 pages</u>
	Total	26 pages

Note: This Addendum shall be included as part of the Contract Documents. Items in this Addendum apply to all drawings and specification sections whether referenced or not involving the portion of the work added, deleted, modified, or otherwise addressed in the Addendum. Acknowledge receipt of this Addendum in the space provided on the Bid Form. Failure to do so may subject the Bidder to Disqualification.

While we contend that SB220 should only be potentially applicable to a contract issued after the effective date of said bill, this is to clarify that for purposes of this contract, regardless of the execution or effective dates of this contract, the status of Utah Law and remedies available to the State of Utah and DFCM, as it relates to any matter referred to or affected by said SB220, shall be the Utah law in effect at the time of the issuance of this Addendum.

2.1 SCHEDULE CHANGES: No schedule changes.

2.2 GENERAL ITEMS: All references to “Addendum #1” in the following A/E’s Addendum should be considered “Addendum #2”. Addendum includes specification/drawing/general clarifications.

ADDENDUM #1

PROJECT NAME: UTAH VALLEY UNIVERSITY MURDOCK GUEST HOUSE ADAPTIVE RE-USE ADDENDUM NO.: 1
DFCM PROJECT # 08307790
DATE: JANUARY 21 2009

FROM: ATLAS ARCHITECTS
TO: ALL BIDDERS

THIS ADDENDUM FORMS AND BECOMES A PART OF THE CONTRACT DOCUMENTS AND MODIFIES THE ORIGINAL BIDDING DOCUMENTS DATED DECEMBER 19 2009

GENERAL CLARIFICATIONS:

1. THIS IS A "TAX EXEMPT PROJECT"
2. 03/A2.1 IS TO BE CONSIDERED TYPICAL WALL DETAIL FOR ENTIRE PERIMETER OF RAMP AND INTERMEDIATE WALL BETWEEN RUNS - PROVIDE EXPANSION JOINT FILLER BETWEEN RAMP AND EXISTING BUILDING
3. SAWCUT AND REMOVE PORTION OF EXTERIOR CONCRETE PATIO AS REQUIRED FOR INSTALLATION OF NEW RAMP AT BASEMENT LEVEL.
4. METAL STUDS MAY BE SUBSTITUTED AT NO ADDITIONAL COST TO OWNER.
5. BASEMENT WINDOWS ARE TO BE FINISHED WITH PAINTED DRYWALL RETURNS AT SILL AND CASING.
6. NEW WINDOWS TO MATCH EXISTING - DISREGARD VINYL WINDOW DESCRIPTION NOTED IN SPECIFICATION.
7. PROVIDE HARDWOOD CAP AT 1/2 HEIGHT WALL AT STAIRS - FINISH TO MATCH NEW TREADS.
8. NEW TREAD IS TO BE 1" THICK OAK TREAD WITH 1/2" OVERHANG AT RISER SCRIBED TO FIT EXISTING TREAD, AFFIXED TO EXISTING TREAD WITH WOOD GRABBER SCREWS COUNTERSUNK AND FILLED, TREADS TO BE FINISHED TO MATCH DOORS
9. WALL PANEL TRIMS IE 'SQUARE FRAME' WALL MOULDINGS ON EXISTING FIRST FLOOR LIVING AND DINING ROOMS TO BE REMOVED AND WALL PATCHED AND PREPPED FOR PAINT.
10. EXISTING TOILET ROOM WINDOW CASING AND SILL TILE TO BE REMOVED AND REPLACED WITH PAINTED GYP RETURNS AT SILL AND CASING.
11. WOOD COLUMNS IN BASEMENT ARE TO BE CLAD WITH GYP BOARD AND PAINTED. METAL PIPE COLUMNS ARE TO BE FURRED AND CLAD WITH GYP TO MATCH WOOD COLUMNS.
12. SPECIFICATION 09 68 13 PART 1.2 B IS CHANGED TO READ "CARPET IS TO BE PURCHASED THROUGH STATE CONTRACT" NO SINGLE SUBCONTRACTOR IS TO BE SOLELY SPECIFIED TO PURCHASE OR INSTALL CARPET.

DRAWING CHANGES:

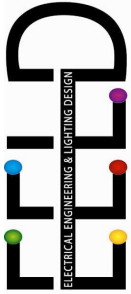
SEE CLOUDDED CHANGES ON ATTACHED (5) ARCHITECTURAL DRAWING SHEETS.

END OF ADDENDUM #1 ARCHITECTURAL



A T L A S
ARCHITECTS, INC.

801/322/2724 327 EAST BROADWAY SLC, UT 84111 WWW.ATLASARCHITECTS.COM



Electrical Addendum #1

Project Name: UVU Murdock Guest House

Date: January 21, 2009

The following modification, clarifications, and/or corrections shall become part of the original bid documents.

Electrical
Engineering &
Lighting
Design

1220 South
300 West
Salt Lake City, UT
84101

Phone:
(801) 486-2222

Fax:
(801) 474-3353

Sheet EE-001

1. Add the following note to the General Notes,

“44. MC cables may be used only in branch circuits that are no more than 10 feet in length. Use $\frac{3}{4}$ ” minimum EMT conduit for homeruns.”

- 1.

ADDENDUM

Project Name: Utah Valley University Murdock Guest House Adaptive Re-Use

Addendum No.: 1

DFCM Project # 08307790

Date: January 20, 2009

From: WHW Engineering Inc
8619 South Sandy Parkway
Sandy, Utah 84070
Phone (80) 466-4021 Fax (801) 466-8536

To: All Bidders

This Addendum forms and becomes a part of the Contract Documents and modifies the original Bidding Documents dated December 2009 as noted below. Acknowledge receipt of this Addendum in the space provided on the Bid Form. Failure to do so may subject the Bidder to disqualification.

This Addendum consists of 12 pages and 2 full sized drawings.

I - CHANGES TO PRIOR ADDENDA: N/A

II - CHANGES/CLARIFICATIONS TO SPECIFICATIONS:

Item II-1. Specification 15415 – Please insert drinking fountain specification. See attached.

Item II-2. Specification 15857 – Please insert louvers and vents specification. See attached.

III - CHANGES/CLARIFICATIONS TO DRAWINGS:

Item III-1. Modified transfer air to accommodate floor plan change. See sheet ME101.

Item III-2. Changed electrical requirements in furnace schedule to 120/1/60. See sheet ME601.

PRIOR APPROVALS

THE FOLLOWING ITEMS, AS SUBMITTED, ARE CONSIDERED, IN GENERAL AND IN NAME ONLY, AS EQUAL TO THOSE ITEMS SPECIFIED. THIS REVIEW DOES NOT RELIEVE THE CONTRACTOR OR SUPPLIER OF THE RESPONSIBILITY OF CONFORMING TO THE DRAWINGS AND SPECIFICATIONS, NOR DOES IT RELIEVE THE CONTRACTOR OF THE REQUIREMENTS OF THE SPECIFICATIONS FOR COORDINATION WITH OTHER TRADES. ALL DIMENSIONS SHALL BE CONFIRMED AND CORRELATED AT THE JOBSITE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING EXISTING CONDITIONS AND THE SUITABILITY OF "EQUAL" PRODUCTS FOR THE SPECIFIED APPLICATION.

Description

Manufacturer

15820 – HETDs

Hercules

15820 – Flexible Ducts

Hart and Cooley

Flexmaster

McGill

Thermaflex

End of Mechanical Addendum

SECTION 15415 - DRINKING FOUNTAINS AND WATER COOLERS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. This Section includes the following water coolers and related components:
 - 1. Pressure water coolers.
 - 2. Fixture supports.

1.3 DEFINITIONS

- A. Accessible Water Cooler: Fixture that can be approached and used by people with disabilities.
- B. Cast Polymer: Dense, cast-filled-polymer plastic.
- C. Drinking Fountain: Fixture with nozzle for delivering stream of water for drinking.
- D. Fitting: Device that controls flow of water into or out of fixture.
- E. Fixture: Drinking fountain or water cooler unless one is specifically indicated.
- F. Remote Water Cooler: Electrically powered equipment for generating cooled drinking water.
- G. Water Cooler: Electrically powered fixture for generating and delivering cooled drinking water.

1.4 SUBMITTALS

- A. Product Data: For each fixture indicated. Include rated capacities, furnished specialties, and accessories.
- B. Shop Drawings: Diagram power, signal, and control wiring.
- C. Field quality-control test reports.
- D. Operation and Maintenance Data: For fixtures to include in operation, and maintenance manuals.

1.5 QUALITY ASSURANCE

- A. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, Article 100, by a testing agency acceptable to authorities having jurisdiction, and marked for intended use.
- B. Regulatory Requirements: Comply with requirements in ICC A117.1, "Accessible and Usable Buildings and Facilities"; Public Law 90-480, "Architectural Barriers Act"; and Public Law 101-336, "Americans with Disabilities Act"; for fixtures for people with disabilities.
- C. NSF Standard: Comply with NSF 61, "Drinking Water System Components--Health Effects," for fixture materials that will be in contact with potable water.
- D. ARI Standard: Comply with ARI's "Directory of Certified Drinking Water Coolers" for style classifications.
- E. ARI Standard: Comply with ARI 1010, "Self-Contained, Mechanically Refrigerated Drinking-Water Coolers," for water coolers and with ARI's "Directory of Certified Drinking Water Coolers" for type and style classifications.
- F. ASHRAE Standard: Comply with ASHRAE 34, "Designation and Safety Classification of Refrigerants," for water coolers. Provide HFC 134a (tetrafluoroethane) refrigerant, unless otherwise indicated.

1.6 EXTRA MATERIALS

- A. Furnish extra materials described below that match products installed and that are packaged with protective covering for storage and identified with labels describing contents.
 - 1. Filter Cartridges: Equal to 100 percent of amount installed for each type and size indicated, but no fewer than 1 of each.

PART 2 - PRODUCTS

2.1 PRESSURE WATER COOLERS

- A. Water Coolers:
 - 1. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
 - a. Elkay Manufacturing Co. **model EZSTL8C or equal by**
 - b. Acorn Aqua.
 - c. Haws Corporation.
 - d. Prior approved equal.

2. Description: Accessible, ARI 1010, Type PB, pressure with bubbler, Style W, Bi-level wall-mounting water cooler for adult and child-mounting height.
 - a. Cabinet: Bilevel with two attached cabinets and with bilevel skirt kit,.
 - b. Bubbler: One, with adjustable stream regulator, located on each cabinet deck.
 - c. Control: Push bar.
 - d. Supply: NPS 3/8 with ball, gate, or globe valve.
 - e. Filter: One or more water filters complying with NSF 42 and NSF 53 for cyst and lead reduction to below EPA standards; with capacity sized for unit peak flow rate.
 - f. Drain(s): Grid with NPS 1-1/4 minimum horizontal waste and trap complying with ASME A112.18.1.
 - g. Cooling System: Electric, with hermetically sealed compressor, cooling coil, air-cooled condensing unit, corrosion-resistant tubing, refrigerant, corrosion-resistant-metal storage tank, and adjustable thermostat.
 - 1) Capacity: 8 gph of 50 deg F cooled water from 80 deg F inlet water and 90 deg F ambient air temperature.
 - 2) Electrical Characteristics: hp; 120-V ac; single phase; 60 Hz.
 - h. Support: Type II, water cooler carrier. Refer to "Fixture Supports" Article.

2.2 FIXTURE SUPPORTS

- A. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
 1. Josam Co.
 2. MIFAB Manufacturing, Inc.
 3. Smith, Jay R. Mfg. Co.
 4. Tyler Pipe; Wade Div.
 5. Watts Drainage Products Inc.; a div. of Watts Industries, Inc.
 6. Zurn Plumbing Products Group; Specification Drainage Operation.
 7. Or equal by.
- B. Description: ASME A112.6.1M, water cooler carriers. Include vertical, steel uprights with feet and tie rods and bearing plates with mounting studs matching fixture to be supported.
 1. Type I: Hanger-type carrier with two vertical uprights.
 2. Type II: Bilevel, hanger-type carrier with three vertical uprights.
 3. Supports for Accessible Fixtures: Include rectangular, vertical, steel uprights instead of steel pipe uprights.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine roughing-in for water and waste piping systems to verify actual locations of piping connections before fixture installation. Verify that sizes and locations of piping and types of supports match those indicated.
- B. Examine walls and floors for suitable conditions where fixtures are to be installed.
- C. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 APPLICATIONS

- A. Use carrier off-floor supports for wall-mounting fixtures, unless otherwise indicated.
- B. Use mounting frames for recessed water coolers, unless otherwise indicated.
- C. Set freestanding and pedestal drinking fountains on floor.
- D. Set remote water coolers on floor, unless otherwise indicated.
- E. Use chrome-plated brass or copper tube, fittings, and valves in locations exposed to view. Plain copper tube, fittings, and valves may be used in concealed locations.

3.3 INSTALLATION

- A. Install off-floor supports affixed to building substrate and attach wall-mounting fixtures, unless otherwise indicated.
- B. Install mounting frames affixed to building construction and attach recessed water coolers to mounting frames, unless otherwise indicated.
- C. Install fixtures level and plumb. For fixtures indicated for children, install at height required by authorities having jurisdiction.
- D. Install water-supply piping with shutoff valve on supply to each fixture to be connected to water distribution piping. Use ball, gate, or globe valve. Install valves in locations where they can be easily reached for operation. Valves are specified in Division 15 Section "Valves."
- E. Install trap and waste piping on drain outlet of each fixture to be connected to sanitary drainage system.
- F. Install pipe escutcheons at wall penetrations in exposed, finished locations. Use deep-pattern escutcheons where required to conceal protruding pipe fittings. Escutcheons are specified in Division 15 Section "Basic Mechanical Materials and Methods."

- G. Seal joints between fixtures and walls and floors using sanitary-type, one-part, mildew-resistant, silicone sealant. Match sealant color to fixture color. Sealants are specified in Division 7 Section "Joint Sealants."

3.4 CONNECTIONS

- A. Piping installation requirements are specified in other Division 15 Sections. Drawings indicate general arrangement of piping, fittings, and specialties.
- B. Connect fixtures with water supplies, stops, and risers, and with traps, soil, waste, and vent piping. Use size fittings required to match fixtures.
- C. Ground equipment according to Division 16 Section "Grounding and Bonding."
- D. Connect wiring according to Division 16 Section "Conductors and Cables."

3.5 FIELD QUALITY CONTROL

- A. Water Cooler Testing: After electrical circuitry has been energized, test for compliance with requirements. Test and adjust controls and safeties.
 - 1. Remove and replace malfunctioning units and retest as specified above.
 - 2. Report test results in writing.

3.6 ADJUSTING

- A. Adjust fixture flow regulators for proper flow and stream height.
- B. Adjust water cooler temperature settings.

3.7 CLEANING

- A. After completing fixture installation, inspect unit. Remove paint splatters and other spots, dirt, and debris. Repair damaged finish to match original finish.
- B. Clean fixtures, on completion of installation, according to manufacturer's written instructions.

END OF SECTION 15415

SECTION 15857 - LOUVERS AND VENTS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section Includes:
 - 1. Fixed, extruded-aluminum louvers.

1.3 DEFINITIONS

- A. Louver Terminology: Definitions of terms for metal louvers contained in AMCA 501 apply to this Section unless otherwise defined in this Section or in referenced standards.
- B. Horizontal Louver: Louver with horizontal blades; i.e., the axes of the blades are horizontal.
- C. Vertical Louver: Louver with vertical blades; i.e., the axes of the blades are vertical.
- D. Drainable-Blade Louver: Louver with blades having gutters that collect water and drain it to channels in jambs and mullions, which carry it to bottom of unit and away from opening.
- E. Storm-Resistant Louver: Louver that provides specified wind-driven rain performance, as determined by testing according to AMCA 500-L.

1.4 PERFORMANCE REQUIREMENTS

- A. Louver Performance Ratings: Provide louvers complying with requirements specified, as demonstrated by testing manufacturer's stock units identical to those provided, except for length and width according to AMCA 500-L.

1.5 SUBMITTALS

- A. Product Data: For each type of product indicated.
 - 1. For louvers specified to bear AMCA seal, include printed catalog pages showing specified models with appropriate AMCA Certified Ratings Seals.

- B. Shop Drawings: For louvers and accessories. Include plans, elevations, sections, details, and attachments to other work. Show frame profiles and blade profiles, angles, and spacing.
 - 1. Show weep paths, gaskets, flashing, sealant, and other means of preventing water intrusion.
 - 2. Show mullion profiles and locations.
 - 3. Wiring Diagrams: For power, signal, and control wiring for motorized adjustable louvers.
- C. Samples for Initial Selection: For units with factory-applied color finishes.
- D. Samples for Verification: For each type of metal finish required.
- E. Product Test Reports: Based on evaluation of comprehensive tests performed according to AMCA 500-L by a qualified testing agency or by manufacturer and witnessed by a qualified testing agency, for each type of louver and showing compliance with performance requirements specified.

1.6 QUALITY ASSURANCE

- A. Source Limitations: Obtain louvers and vents from single source from a single manufacturer where indicated to be of same type, design, or factory-applied color finish.
- B. Welding: Qualify procedures and personnel according to the following:
 - 1. AWS D1.2/D1.2M, "Structural Welding Code - Aluminum."
 - 2. AWS D1.3, "Structural Welding Code - Sheet Steel."
 - 3. AWS D1.6, "Structural Welding Code - Stainless Steel."
- C. SMACNA Standard: Comply with recommendations in SMACNA's "Architectural Sheet Metal Manual" for fabrication, construction details, and installation procedures.
- D. UL and NEMA Compliance: Provide motors and related components for motor-operated louvers that are listed and labeled by UL and comply with applicable NEMA standards.

1.7 PROJECT CONDITIONS

- A. Field Measurements: Verify actual dimensions of openings by field measurements before fabrication.

PART 2 - PRODUCTS

2.1 MATERIALS

- A. Aluminum Extrusions: **ASTM B 221**, Alloy 6063-T5, T-52, or T6.

- B. Aluminum Sheet: **ASTM B 209**, Alloy 3003 or 5005 with temper as required for forming, or as otherwise recommended by metal producer for required finish.
- C. Aluminum Castings: ASTM B 26/B 26M, Alloy 319.
- D. Fasteners: Use types and sizes to suit unit installation conditions.
 - 1. Use hex-head or Phillips pan-head screws for exposed fasteners unless otherwise indicated.
 - 2. For fastening aluminum, use aluminum or 300 series stainless-steel fasteners.
 - 3. For fastening galvanized steel, use hot-dip-galvanized steel or 300 series stainless-steel fasteners.
 - 4. For fastening stainless steel, use 300 series stainless-steel fasteners.
 - 5. For color-finished louvers, use fasteners with heads that match color of louvers.
- E. Postinstalled Fasteners for Concrete and Masonry: Torque-controlled expansion anchors, made from stainless-steel components, with capability to sustain, without failure, a load equal to 4 times the loads imposed, for concrete, or 6 times the load imposed, for masonry, as determined by testing per ASTM E 488, conducted by a qualified independent testing agency.
- F. Bituminous Paint: Cold-applied asphalt emulsion complying with ASTM D 1187.

2.2 FABRICATION, GENERAL

- A. Assemble louvers in factory to minimize field splicing and assembly. Disassemble units as necessary for shipping and handling limitations. Clearly mark units for reassembly and coordinated installation.
- B. Include supports, anchorages, and accessories required for complete assembly.
- C. Provide subsills made of same material as louvers or extended sills for recessed louvers.

2.3 FIXED, EXTRUDED-ALUMINUM LOUVERS

- A. Horizontal, Nondrainable-Blade Louver:
 - 1. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
 - a. Ruskin Company; Tomkins PLC. Model ELF811 or equivalent.
 - b. Airolite Company, LLC (The).
 - c. Air Rite
 - d. American Warming and Ventilating, Inc.; a Mestek company.
 - e. Arrow United Industries; a division of Mestek, Inc.
 - f. Carnes Company, Inc.
 - g. Cesco Products; a division of Mestek, Inc.
 - h. Greenheck Fan Corporation.

- i. NCA Manufacturing, Inc.
 - j. Pottroff
 - k. Prior approved equal.
- 2. Fabrication: Continuous blade style.
 - a. Frame:
 - 1) Frame Depth: 4 inches (102mm).
 - 2) Material: Extruded aluminum, Alloy 6063-T5.
 - 3) Wall Thickness: 0.125 inch (3.2mm), nominal.
 - b. Blades:
 - 1) Style: Horizontal "K".
 - 2) Material: Formed aluminum, Alloy 6063-T5.
 - 3) Wall Thickness: 0.125 inch (3.2 mm), nominal.
 - 4) Angle: 45 degrees.
 - 5) Centers: 4-1/2 inches (114 mm), nominal.
 - 6) Continuous Blade Style – Design incorporates visible mullions or frames at the perimeter of the louver only. Rear-mounted hidden blade supports are utilized at section joints and at intermediate locations as needed. Louver blade sightlines are not interrupted at section joints or blade support locations. The rear-mounted blade support depth varies depending on louver height and the design windload.
 - c. Assembly:
 - 1) Factory assembled louver components. Mechanically fastened construction.

B. Performance Data:

- 1. Performance Ratings:
 - a. Based on testing 48 inch by 48 inch (1219 mm by 1219 mm) size unit in accordance with AMCA 500.
- 2. Free Area: 44 percent, nominal.
- 3. Maximum Recommended Air Flow through Free Area: 707 feet per minute (214 m/min).
- 4. Air Flow: 5027 cubic feet per minute (142 cu. m/min).
- 5. Maximum Pressure Drop (Intake): .06 inches w.g. (14.9 Pa).
- 6. Water Penetration: Maximum of 0.01 ounces per square foot (3.1 g/sm) of free area at an air flow of 707 feet per minute (214 m/min) free area velocity when tested for 15 minutes.

C. Design Load: Incorporate structural supports required to withstand wind load of:

1. 20 lb/sf (0.96 kPa).
2. Per Code.
3. Louvers shall be factory engineered to withstand the specified seismic loads.

- a. Minimum design loads shall be calculated to comply with ASCE – 7, or local requirements of Authority Having Jurisdiction.

2.4 ACCESSORIES

- A. Aluminum Insulated Blank-Off Panels: 1 inch (25 mm), aluminum skin, insulated core, factory installed with removable screws and neoprene gaskets.
- B. Bird Screen:
 1. Steel: Galvanized steel, 1/2 inch mesh by 19 gage (13 mm mesh by 1.1 mm), intercrimp.
 2. Frame: Removable, rewireable.

2.5 FINISHES

- A. Kynar:
 1. Coating shall conform to AAMA 2605. Apply coating following cleaning and pretreatment. Cleaning: AA-C12C42R1X.
 2. Standard 2-coat.
 3. Pearledize 70 (2-coat mica).
- B. Color for Kynar Finish:
 1. Color: Custom, as selected by architect.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine substrates and openings, with Installer present, for compliance with requirements for installation tolerances and other conditions affecting performance.
- B. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 PREPARATION

- A. Coordinate setting drawings, diagrams, templates, instructions, and directions for installation of anchorages that are to be embedded in concrete or masonry construction. Coordinate delivery of such items to Project site.

3.3 INSTALLATION

- A. Locate and place louvers and vents level, plumb, and at indicated alignment with adjacent work.
- B. Use concealed anchorages where possible. Provide brass or lead washers fitted to screws where required to protect metal surfaces and to make a weathertight connection.
- C. Form closely fitted joints with exposed connections accurately located and secured.
- D. Provide perimeter reveals and openings of uniform width for sealants and joint fillers, as indicated.
- E. Repair finishes damaged by cutting, welding, soldering, and grinding. Restore finishes so no evidence remains of corrective work. Return items that cannot be refinished in the field to the factory, make required alterations, and refinish entire unit or provide new units.
- F. Protect unpainted galvanized and nonferrous-metal surfaces that will be in contact with concrete, masonry, or dissimilar metals from corrosion and galvanic action by applying a heavy coating of bituminous paint or by separating surfaces with waterproof gaskets or nonmetallic flashing.
- G. Install concealed gaskets, flashings, joint fillers, and insulation as louver installation progresses, where weathertight louver joints are required. Comply with Division 7 Section "Joint Sealants" for sealants applied during louver installation.

3.4 ADJUSTING AND CLEANING

- A. Test operation of adjustable louvers and adjust as needed to produce fully functioning units that comply with requirements.
- B. Clean exposed surfaces of louvers and vents that are not protected by temporary covering, to remove fingerprints and soil during construction period. Do not let soil accumulate during construction period.
- C. Before final inspection, clean exposed surfaces with water and a mild soap or detergent not harmful to finishes. Thoroughly rinse surfaces and dry.
- D. Restore louvers and vents damaged during installation and construction so no evidence remains of corrective work. If results of restoration are unsuccessful, as determined by Architect, remove damaged units and replace with new units.
 - 1. Touch up minor abrasions in finishes with air-dried coating that matches color and gloss of, and is compatible with, factory-applied finish coating.

END OF SECTION 15857

UTAH VALLEY UNIVERSITY

MURDOCK GUEST HOUSE ADAPTIVE RE-USE

Orem, Utah

DFCM Project #08307790
12.19.2008

ARCHITECTS, INC.
327 EAST BROADWAY SLD, UT 84111
801.322.2724
WWW.ATLASARCHITECTS.COM

ADDENDUM #1 1/20/09

CODE ANALYSIS

APPLICABLE CODES			
	Year		Year
International Building Code	2008	National Electrical Code	2005
International Mechanical Code	2008	Uniform Code for Building Conservation	2006
International Plumbing Code	2008	ADA Accessibility Guidelines	ICC/ANSI 117.1 2003
International Fire Code	2006		
International Energy Conservation Code	2006		

- A. Occupancy and Group: B
- Change in Use: Yes X No Mixed Occupancy: Yes No X
Special Use and Occupancy (e.g. High Rise, Covered Mall): NONE
- B. Seismic Design Category: D Design Wind Speed: 90 mph
- C. Type of Construction (circle one):
 $\frac{I}{A}$ $\frac{I}{B}$ $\frac{II}{A}$ $\frac{II}{B}$ $\frac{III}{A}$ $\frac{III}{B}$ $\frac{IV}{HT}$ $\frac{V}{A}$ $\frac{V}{B}$
- D. Fire Resistance Rating Requirements for the Exterior Walls based on the fire separation distance (in hours):
North: 0 South: 0 East: 0 West: 0
- E. Mixed Occupancies: NONE Nonseparated Uses: NONE
- F. Sprinklers:
Required: NONE Provided: NONE Type of Sprinkler System:
- G. Number of Stories: 2 Building Height: 25'
- H. Actual Area per Floor (square feet): Main Floor 3,300 sf Basement 2,458 sf
- I. Tabular Area: 5,758 sf
- J. Area Modifications:
$$a) A_a = A_t + \left[\frac{A_t I_t}{100} \right] + \left[\frac{A_t I_a}{100} \right] \quad I_t = 100 \left[\frac{F}{P} - 0.25 \right] \frac{W}{30}$$

b) Sum of the Ratio Calculations for Mixed Occupancies:
$$\frac{\text{Actual Area}}{\text{Allowable Area}} \leq 1$$

c) Total Allowable Area for:
1) One Story:
2) Two Story: A_a (2) 9,000 sf
3) Three Story: A_a (3)
d) Unlimited Area Building: Yes No X Code Section:
- K. Fire Resistance Rating Requirements for Building Elements (hours).

Element	Hours	Assembly Listing	Element	Hours	Assembly Listing
Exterior Bearing Walls	0	NONE	Floors - Ceiling Floors	0	NONE
Interior Bearing Walls	0	NONE	Roofs - Ceiling Roofs	0	NONE
Exterior Non-Bearing Walls	0	NONE	Exterior Doors and Windows	0	NONE
Structural Frame	0	NONE	Shaft Enclosures	0	NONE
Partitions - Permanent	0	NONE	Fire Walls	0	NONE
Fire Barriers	0	NONE	Fire Partitions	0	NONE
			Smoke Partitions	0	NONE

- L. Design Occupant Load: 58
Exit Width Required: 11.6" Exit Width Provided: 144"
- M. Minimum Number of Required Plumbing Facilities:
a) Water Closets - Required (m) 1 (f) 1 Provided (m) 1 (f) 1
b) Lavatories - Required (m) 1 (f) 1 Provided (m) 1 (f) 1
c) Bath Tubs or Showers:
d) Drinking Fountains: 2 Service Sinks: 1

- FOOTNOTES:
- 1) In case of conflict with the U.S. Department of Justice Federal Registers Parts I through V - ADA Guidelines and specific reference to the International Building Code Accessibility Chapters, the more restrictive requirement shall govern.
- 2) Additional Code Information shall be provided at the discretion of the Building Official for Complex Buildings. Including, but not limited to:
a) High Rise Requirements.
b) Atriums.
c) Performance Based Criteria.
d) Means or Egress Analysis.
e) Fire Assembly Locator Sheet.
f) Exterior and Interior Accessibility Route.
g) Fire Stopping, Including Tested Design Number.

DRAWING INDEX

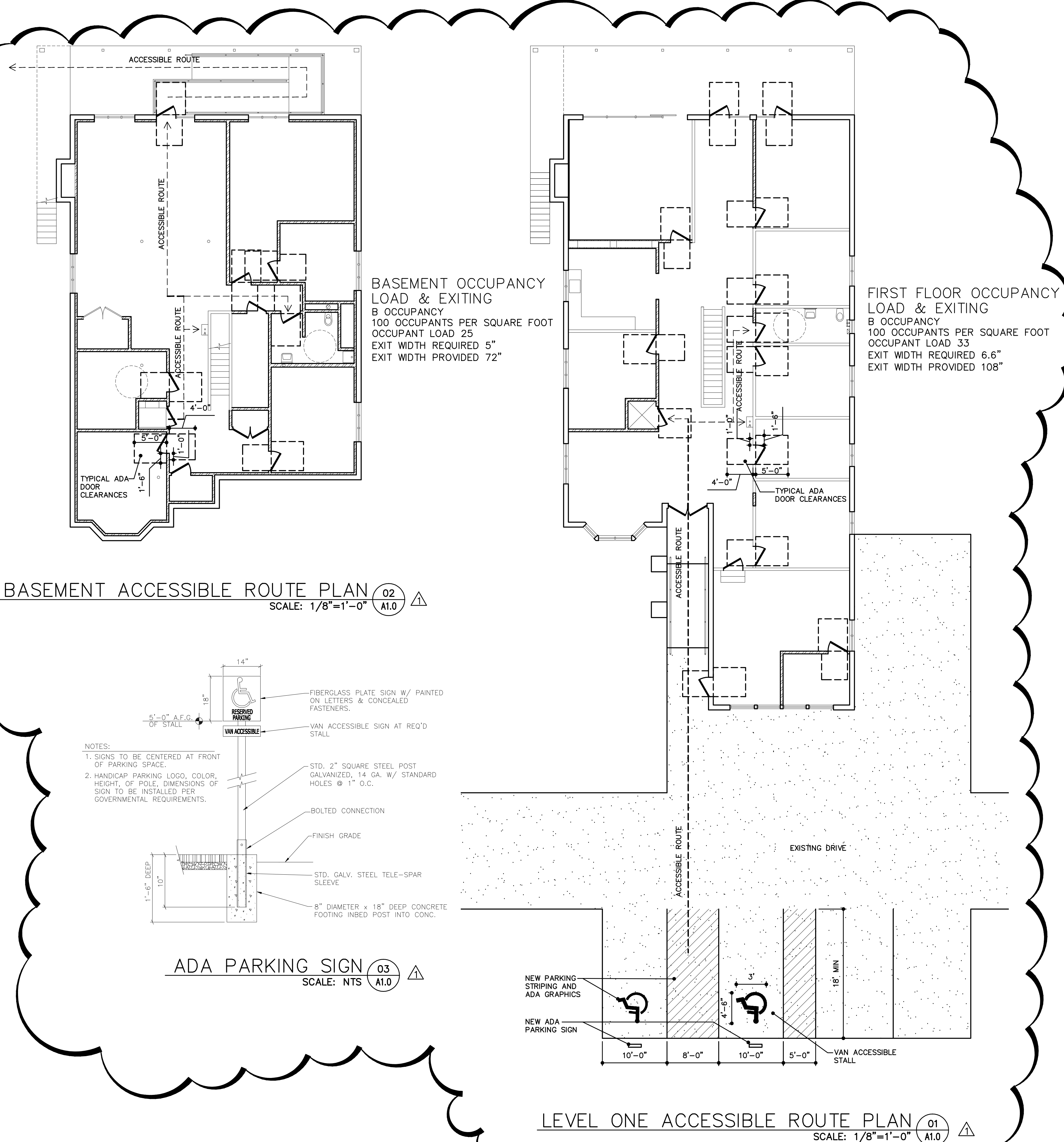
- ARCHITECTURAL:
- A 1.0 COVER SHEET
A 2.0 DEMOLITION PLANS
A 2.1 FLOOR PLANS
A 2.2 FINISH & FURNITURE PLANS
A 2.3 CEILING PLANS
- STRUCTURAL:
- S 201 PLANS
S 202 PLANS
S 801 DETAILS
- MECHANICAL:
- MG 0.1 MECHANICAL LEGEND & NOTES
MD 1.1 MECHANICAL DEMOLITION PLANS
ME 1.1 MECHANICAL FLOOR PLANS
ME 5.1 MECHANICAL DETAILS
ME 5.2 MECHANICAL DETAILS
ME 6.1 MECHANICAL SCHEDULES
- ELECTRICAL:
- EE 001 DETAILS, SCHEDULES, NOTES, SYMBOLS
ED 101 PLAN - DEMOLITION
EP 101 PLAN - POWER
EL 101 PLAN - LIGHTING
- PLUMBING:
- PG 0.1 PLUMBING LEGEND & NOTES
PD 1.1 PLUMBING DEMOLITION PLANS
PE 1.1 PLUMBING FLOOR PLANS
PE 5.1 PLUMBING DETAILS & SCHEDULES

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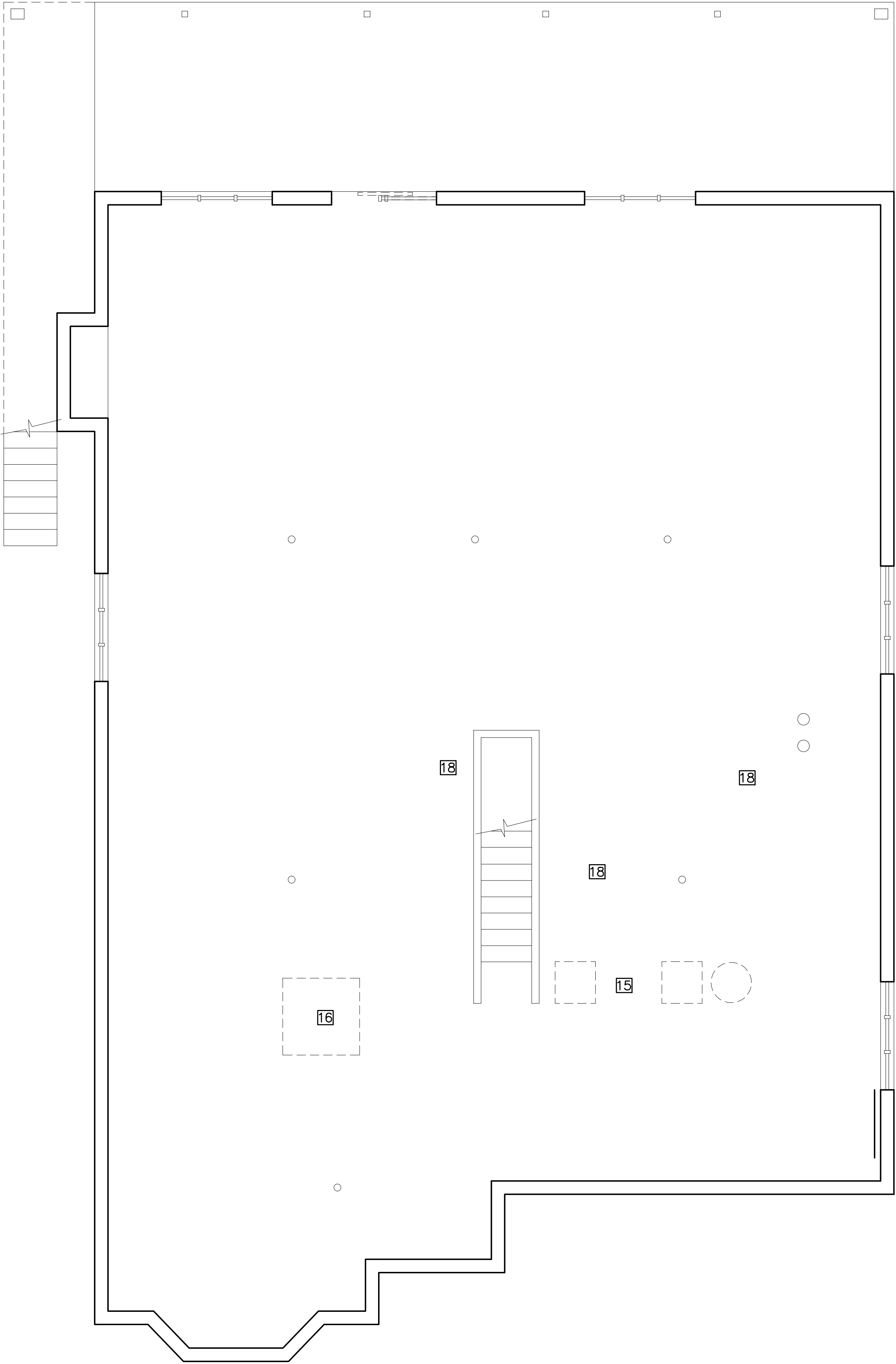
SPECIAL INSPECTIONS

- EPOXY (IBC 1704.13)
STRUCTURAL WOOD (IBC 1707.3)

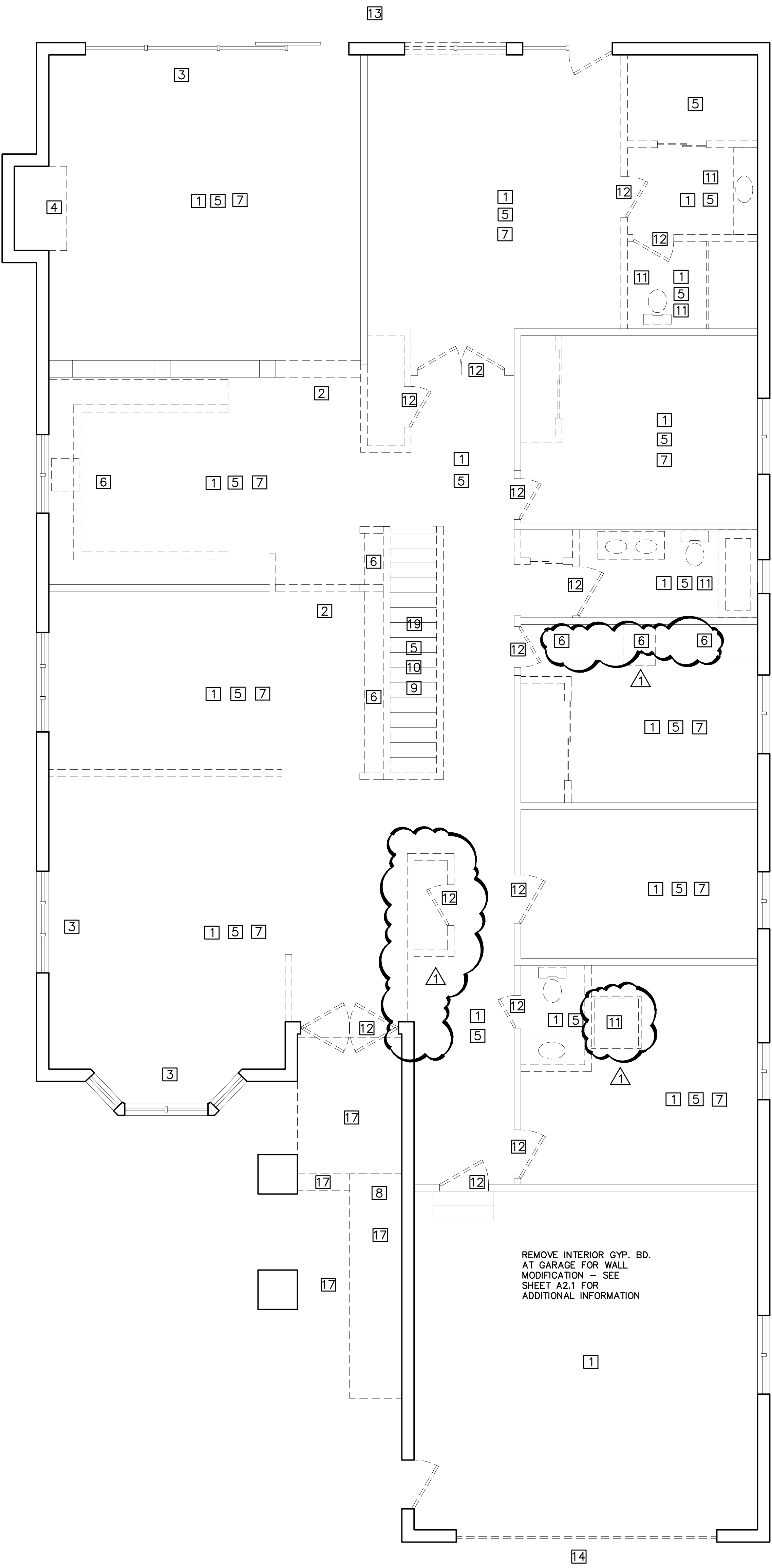


UTAH VALLEY UNIVERSITY
MURDOCK GUEST HOUSE ADAPTIVE RE-USE
519 WEST 1200 SOUTH OREM UTAH

DATE 12.19.08
DRAWING COVER SHEET
SHEET # A1.0



BASEMENT LEVEL DEMOLITION PLAN 02
SCALE: 1/4"=1'-0" A2.0



LEVEL ONE DEMOLITION PLAN 01
SCALE: 1/4"=1'-0" A2.0

DEMOLITION GENERAL NOTES

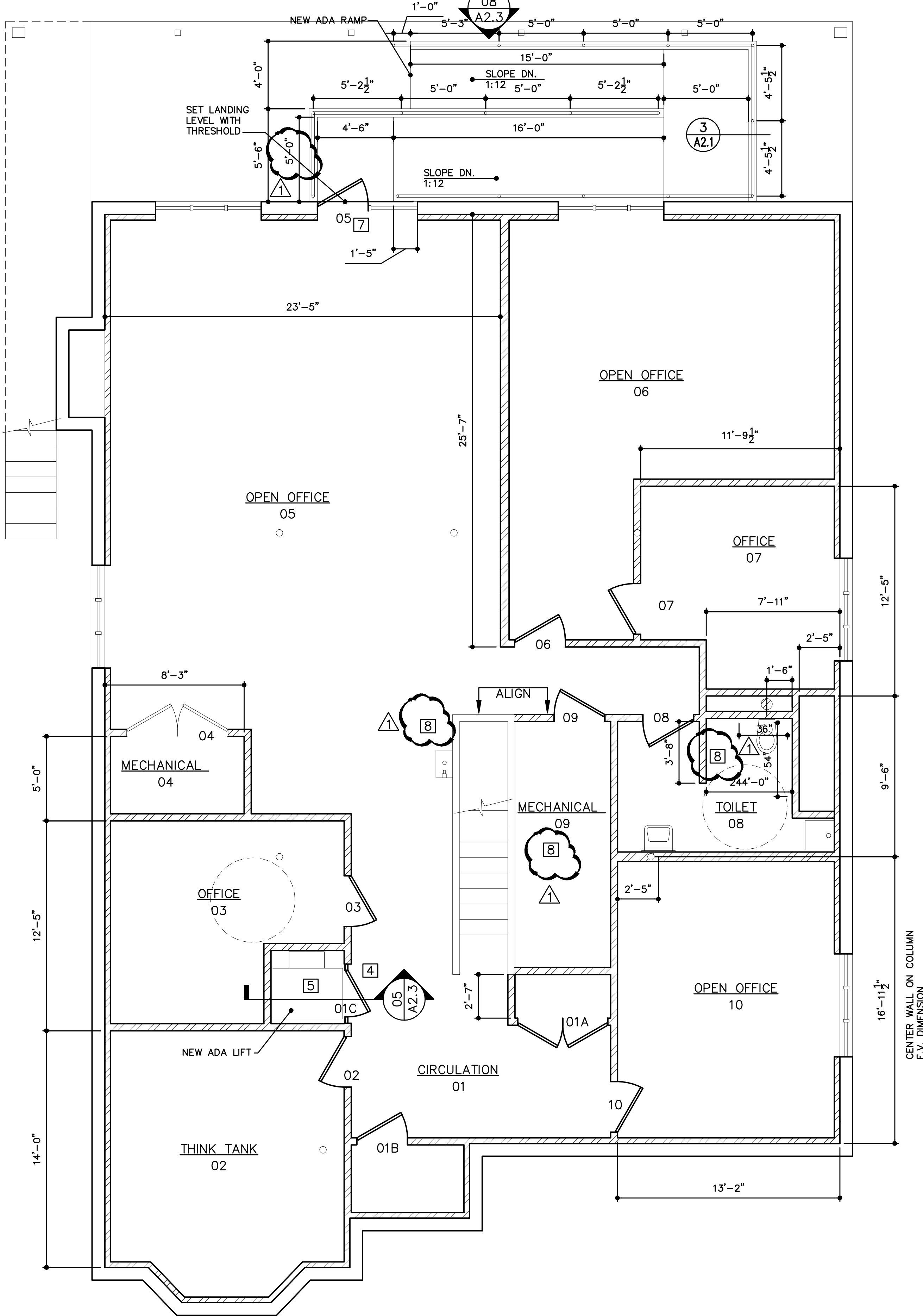
DASHED LINES INDICATE EXISTING CONSTRUCTION TO BE REMOVED - COORDINATE WITH NEW CONSTRUCTION REQUIREMENTS AND INQUIRE DURING BIDDING WHERE INCONSISTENCIES OR CONFLICTS OCCUR

PERFORM SELECTIVE DEMOLITION WHERE NOT INDICATED AS REQUIRED TO ACCOMODATE NEW CONSTRUCTION, FINISHES OR CODE REQUIREMENTS

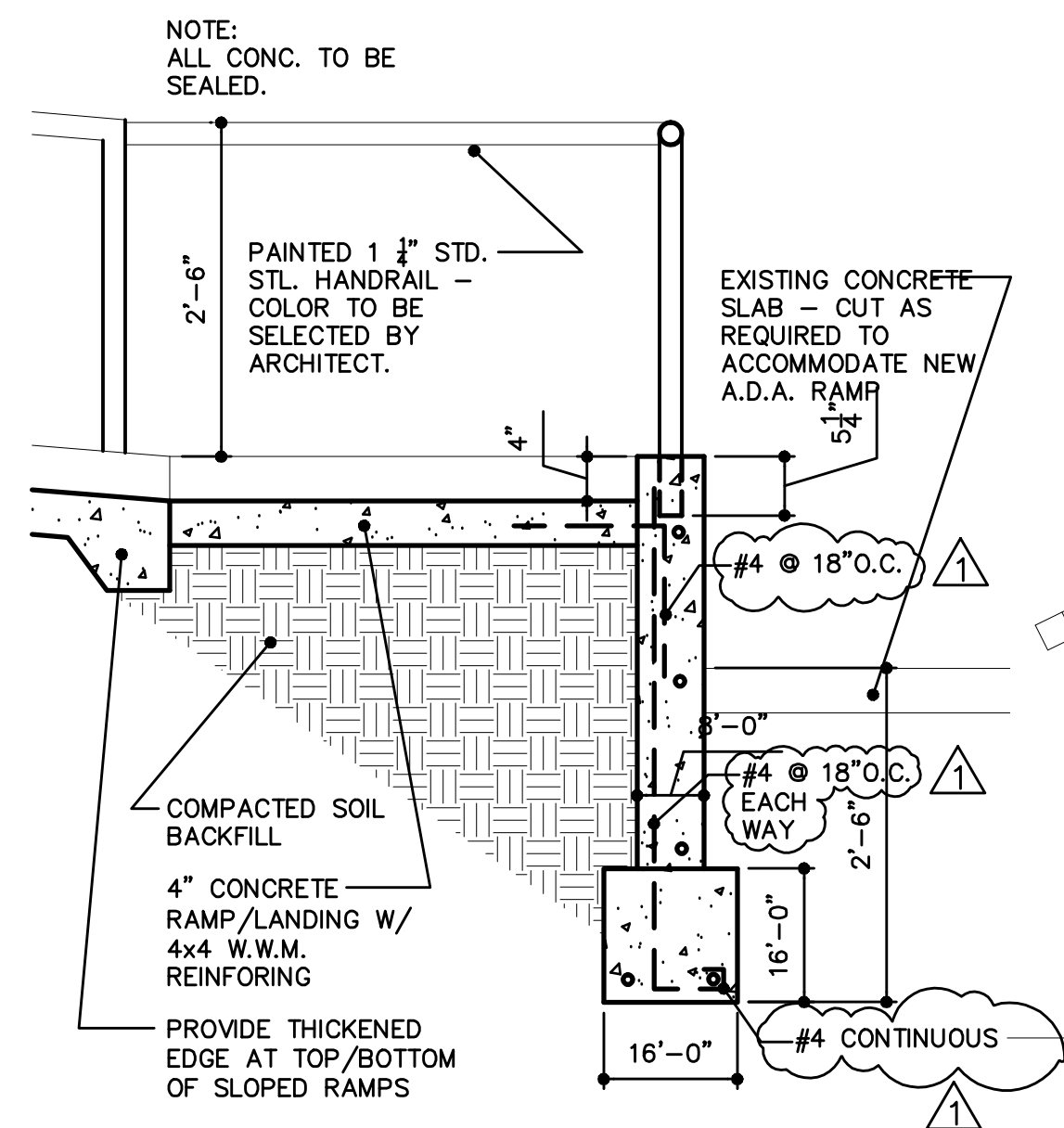
SAVE MILLWORK TRIM AT DEMOLISHED WALLS FOR PATCHING AND REPAIR OF EXISTING TRIM WHERE GAPS WILL OCCUR ON REMAINING WALLS

DEMOLITION KEYED NOTES

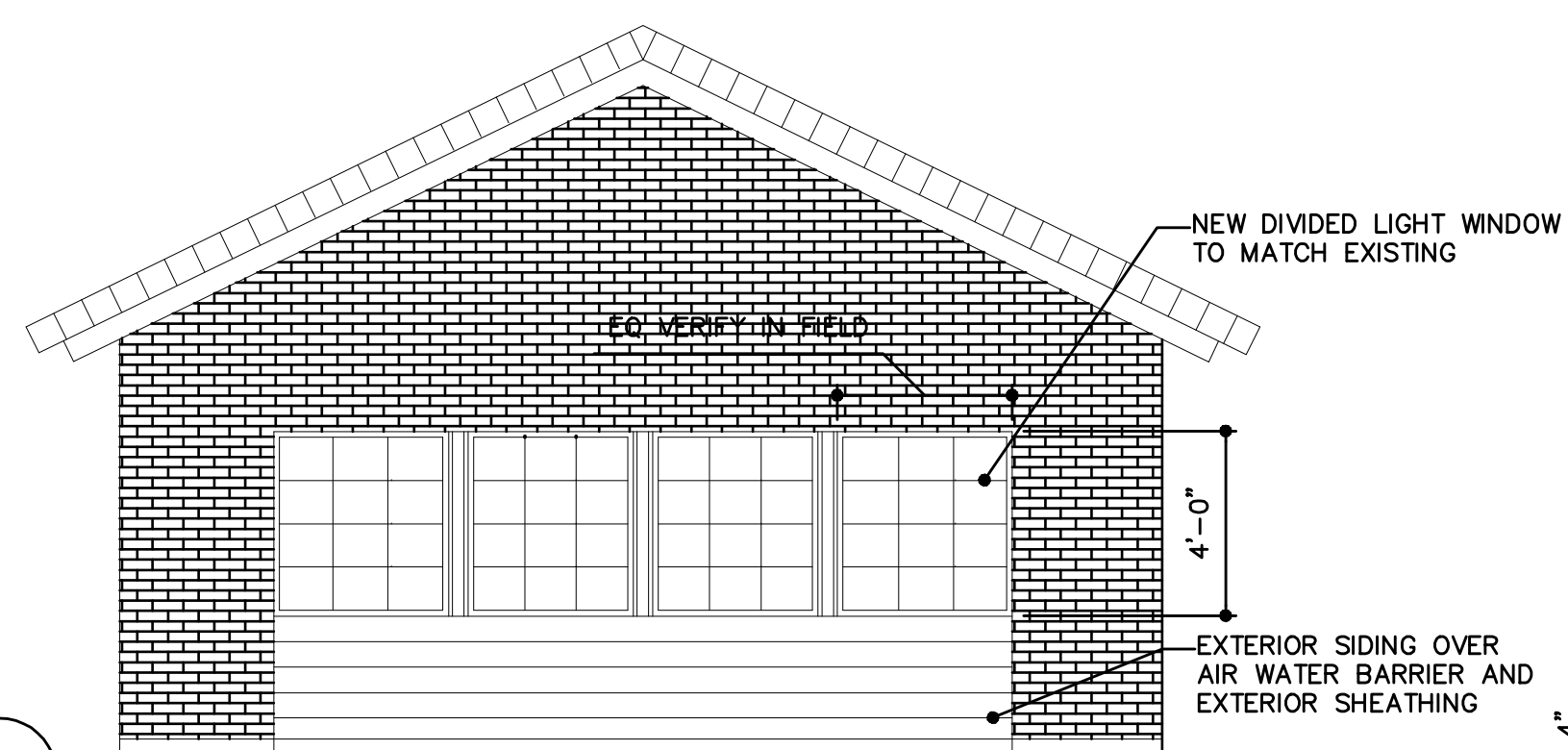
- 1 REMOVE EXISTING LIGHT FIXTURES - CAP WIRES, PATCH & PREP HOLE FOR PAINT TO MATCH CEILING
- 2 REMOVE EXISTING ARCH HEADER - REPAIR AND PREP FOR PAINT TO MATCH CEILING
- 3 REMOVE EXISTING CURTAINS & RODS - REPAIR AND PREP FOR PAINT
- 4 REMOVE EXISTING HEARTH
- 5 REMOVE EXISTING FLOOR COVERING
- 6 REMOVE EXISTING MILLWORK, FIXTURES & APPLIANCES
- 7 REMOVE EXISTING RADIANT BASE BOARD HEATERS
- 8 REMOVE EXISTING ADA RAMP
- 9 REMOVE EXISTING HANDRAIL
- 10 REMOVE TOP PORTION OF EXISTING WALL - TOP OF REMAINING HALF HEIGHT WALL TO BE AT 42" AFF
- 11 REMOVE EXISTING PLUMBING FIXTURES, PLUMBING LINES AND ACCESSORIES
- 12 REMOVE EXISTING DOORS AS INDICATED
- 13 REMOVE EXISTING EXTERIOR LIGHT FIXTURES CAP WIRES AND REPAIR EXTERIOR CLADDING
- 14 REMOVE EXISTING OVERHEAD GARAGE DOOR
- 15 REMOVE EXISTING BOILER, WATER HEATER, FURNACE & DUCTWORK
- 16 SAWCUT AND REMOVE CONCRETE SLAB TO ACCOMODATE NEW ADA LIFT PIT
- 17 REMOVE AND SALVAGE BRICK PAVERS FOR RE-INSTALLATION
- 18 SAWCUT CONCRETE SLAB AS REQUIRED FOR NEW FLOOR DRAINS AND DRINKING FOUNTAINS
- 19 REMOVE EXISTING HANDRAIL



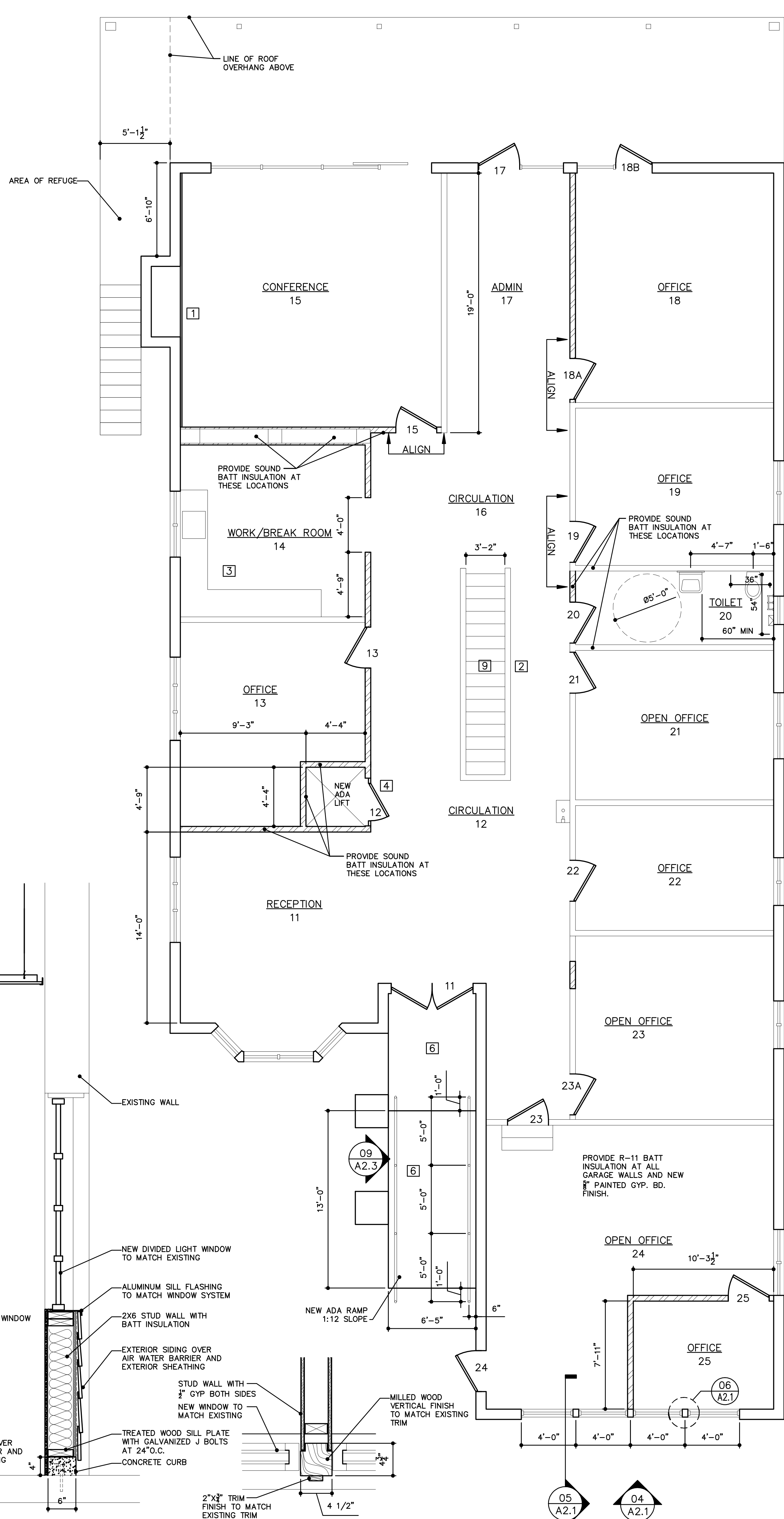
BASEMENT LEVEL PLAN (A2.1)
SCALE: 1/4"=1'-0"



RAMP DETAIL - TYP. (A2.1)
SCALE: 3/4"=1'-0"



EXT ELEVATION (A2.1)
SCALE: 1/4"=1'-0"



WALL SECTION (A2.1)
SCALE: 1"=1'-0"

PLAN DETAIL (A2.1)
SCALE: 1 1/2"=1'-0"

LEVEL ONE FLOOR PLAN (A2.1)
SCALE: 1/4"=1'-0"

GENERAL NOTES

CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS AND CONDITIONS AND COORDINATE WITH THE REQUIREMENTS OF NEW CONSTRUCTION

WHERE CONFLICTS OCCUR NOTIFY OWNER OR ARCHITECT FOR RESOLUTION

PLAN KEYED NOTES

- NEW 8" FURRING AND PAINTED GYP BOARD MILLWORK TRIM TO MATCH ADJACENT WALLS
- NEW TOP PLATE WITH PAINTED GYP FINISH AT 42" AFF AT TOP OF PARTIAL HEIGHT WALL
- NEW BASE CABINETS
- NEW ADA LIFT WITH MANUFACTURERS DOOR ASSEMBLY AND HARDWARE IN STUDWALL & GYP ENCLOSURE - COORDINATE LIFT, FLOOR OPENING, NEW STRUCTURAL FRAMING, AND HOISTWAY
- NEW DEPRESSED SLAB AT HOISWAY SLAB TO BE 4" THICK - COORDINATE DEPRESSION DEPTH WITH LIFT
- NEW ADA RAMP - AFTER REMOVING BRICK PAVERS RAISE LANDING WITH 3" CONCRETE TOPPING SLAB AND RE-INSTALL PAVERS FLUSH WITH EXISTING THRESHOLD. POUR NEW SLOPED TOPPING SLAB AT RAMP AND RE-INSTALL PAVERS
- NEW SWINGING DOOR AND SIDELITE - SIDELITE TO MATCH EXISTING WINDOW SYSTEM
- PATCH AND REPAIR CONCRETE SLAB AT SAWCUT AREAS AFTER FLOOR DRAINS AND PLUMBING IS INSTALLED
- NEW HANDRAIL - BOTH SIDES OF STAIR

WALL TYPE NOTES:

ALL NEW FRAMING TO EXTEND TO STRUCTURE ABOVE OR BE BRACED IN ALTERNATING FASHION AT 4'-0" O.C.

ALL FURRING AT EXTERIOR WALLS SHALL BE 2X4 WOOD STUDS @ 24" O.C. WITH R-11 BATT INSULATION

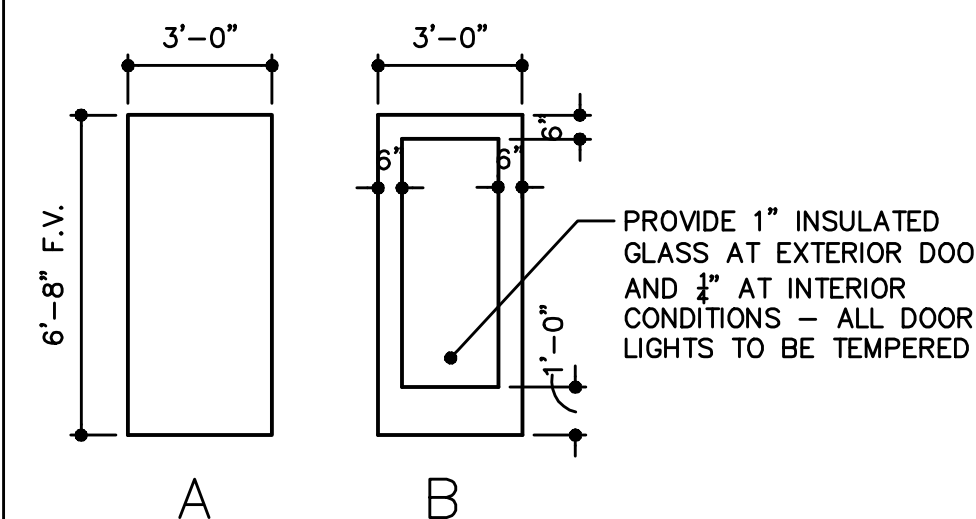
NEW INTERIOR STUD PARTITIONS SHALL BE 2X4 WOOD STUDS @ 16" O.C. WITH SOUND BATT INSULATION WHERE INDICATED WITH PAINTED 8" GYP. BD. EACH SIDE - GYP. BD. AT MECHANICAL CHASES TO BE AT EXTERIOR SIDE ONLY.

WHERE NEW WALLS OR PORTIONS OF WALL ARE ALIGNED WITH EXISTING PARTITIONS, STUD SIZE AND GYP. BD. THICKNESS SHALL MATCH EXISTING CONDITION.

DOOR SCHEDULE:

NOTE: COORDINATE DOOR HARDWARE WITH SPECIFICATION. ALSO COORDINATE REPLACEMENT DOORS WITH SIZE OF EXISTING OPENING.

DOOR #	TYPE	NOTE
01A	A	PAIR
01B	A	PAIR
01C	A	PAIR
02	B	
03	B	
04	A	PAIR
05	B	HARDWARE GROUP ALO1
06	B	
07	B	
08	A	AUTO DOOR OPENER
09	A	
10	B	
11	A	PAIR WITH AUTO DOOR OPENER
12	A	
13	B	
14	B	NOT USED
15	B	NOT USED
16	B	
17	B	
18A	B	
18B	B	
19	A	
20	B	AUTO DOOR OPENER
21	A	
22	B	
23	B	
23A	A	HARDWARE GROUP 07
24	A	
25	B	



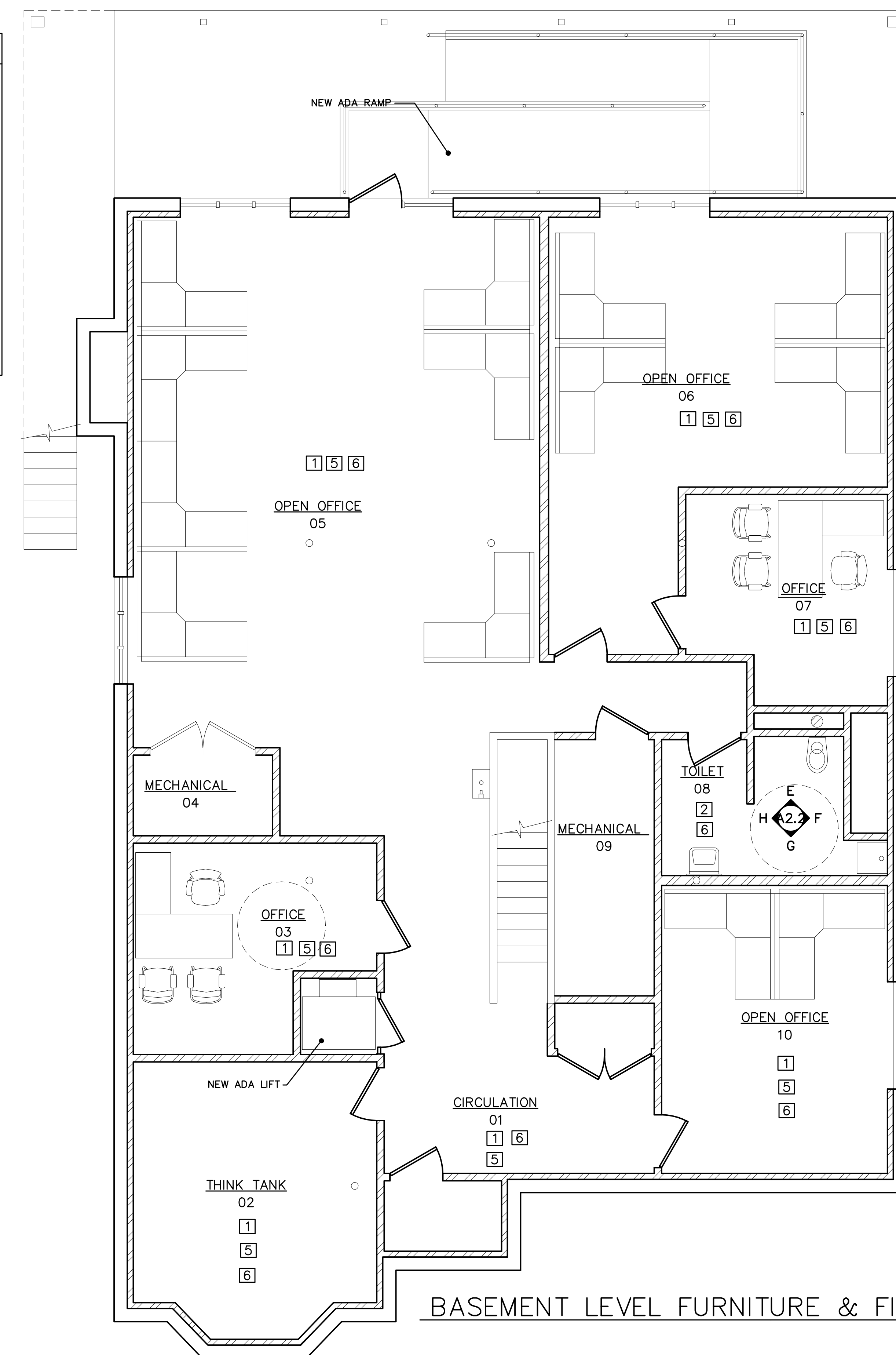
NOTE: NEW DOORS TO BE 3'-0" WIDTH. CONTRACTOR TO FIELD VERIFY WIDTHS OF REPLACEMENT DOORS AT EXISTING CONDITIONS. ALL DOORS TO MATCH EXISTING HEIGHT.

ENHANCED ACCESSIBILITY COMPLIANCE

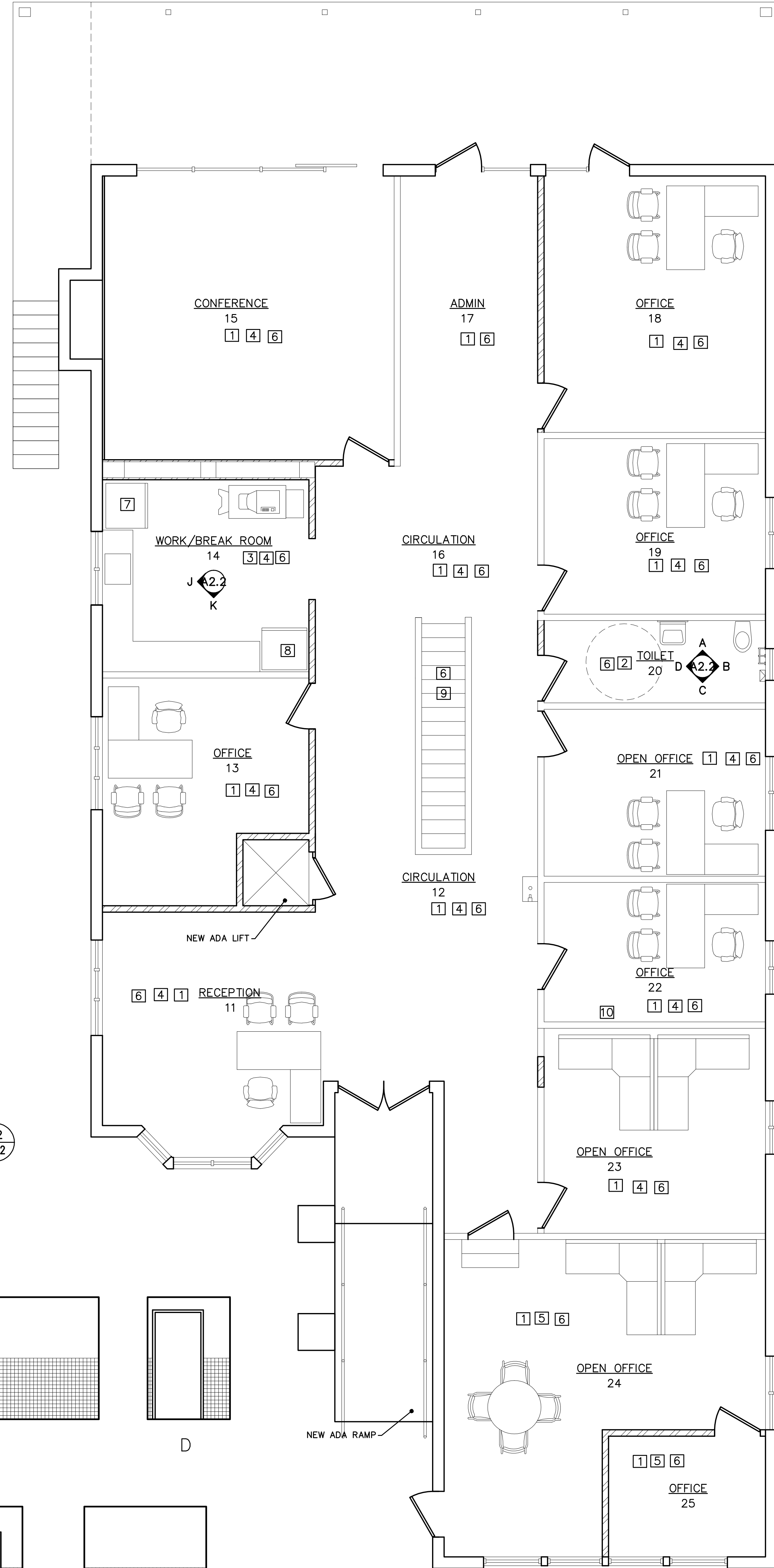
AUTO DOOR OPENERS HAVE BEEN ADDED TO THE MAIN ENTRANCE AS WELL AS BOTH TOILET ROOMS

For opening 11 delete one closer and add one 6860 Norton Auto Operator with two 685 Norton Actuators.
For openings 8 and 20 delete the privacy latch and add one 485 Sargent Deadbolt and one 5700 Norton Auto Operator with two 685 Norton Actuators.

- FURNITURE & FINISH PLAN KEYED NOTES
- 1 NEW CARPET
 - 2 NEW FLOOR TILE & TILE WAINSCOTE
 - 3 NEW VCT
 - 4 NEW WOOD BASE TO MATCH EXISTING
 - 5 NEW RUBBER BASE
 - 6 PAINT AT ALL NEW & EXISTING GYP AND WOOD TRIM
 - 7 REFRIGERATOR BY OWNER
 - 8 VENDING MACHINE BY OWNER
 - 9 NEW HARDWOOD TREAD AT EACH STEP - COLOR & FINISH TO MATCH NEW DOORS
 - 10 NEW PAINTED DRYWALL AT SHEARWALL
- GENERAL: FURNITURE BY OWNER COORDINATE WITH OWNER FOR FINAL LOCATION AND ELECTRICAL CONNECTIONS
- NEW WINDOWS FRAMES TO BE PRIMED AND PAINTED AT INTERIOR TO MATCH EXISTING CONDITIONS

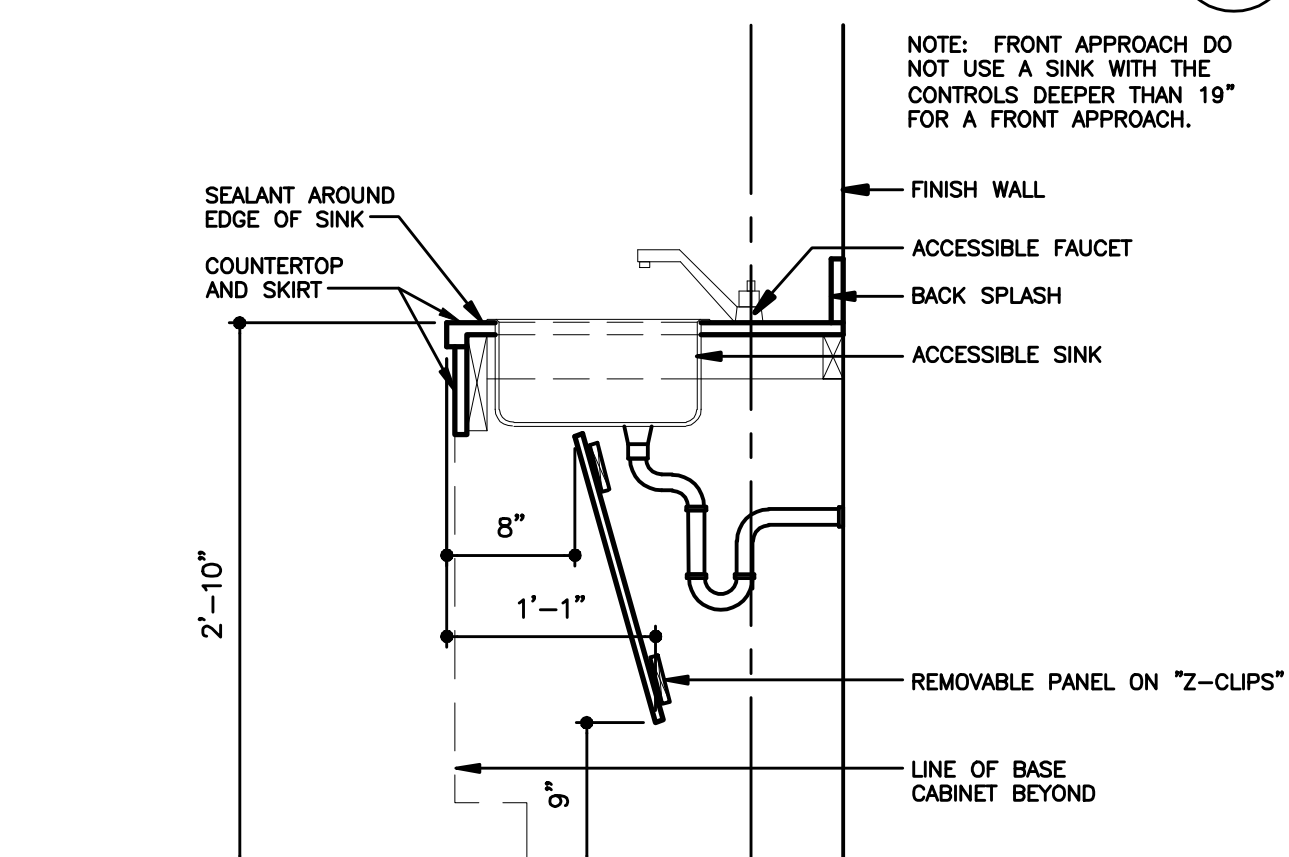


BASEMENT LEVEL FURNITURE & FINISH PLAN (A2.2)
SCALE: 1/4"=1'-0"

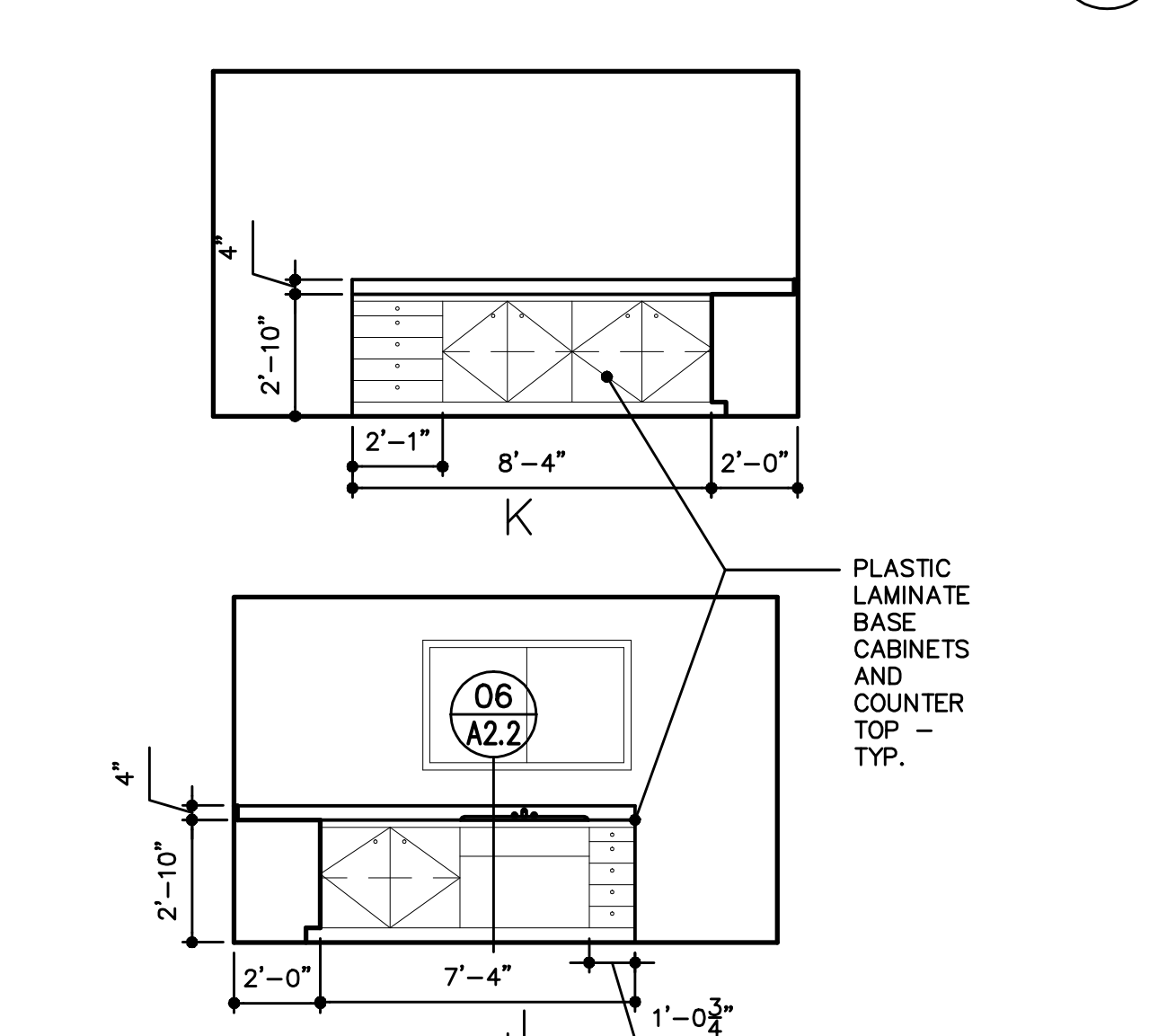


LEVEL ONE FURNITURE & FINISH PLAN (A2.2)
SCALE: 1/4"=1'-0"

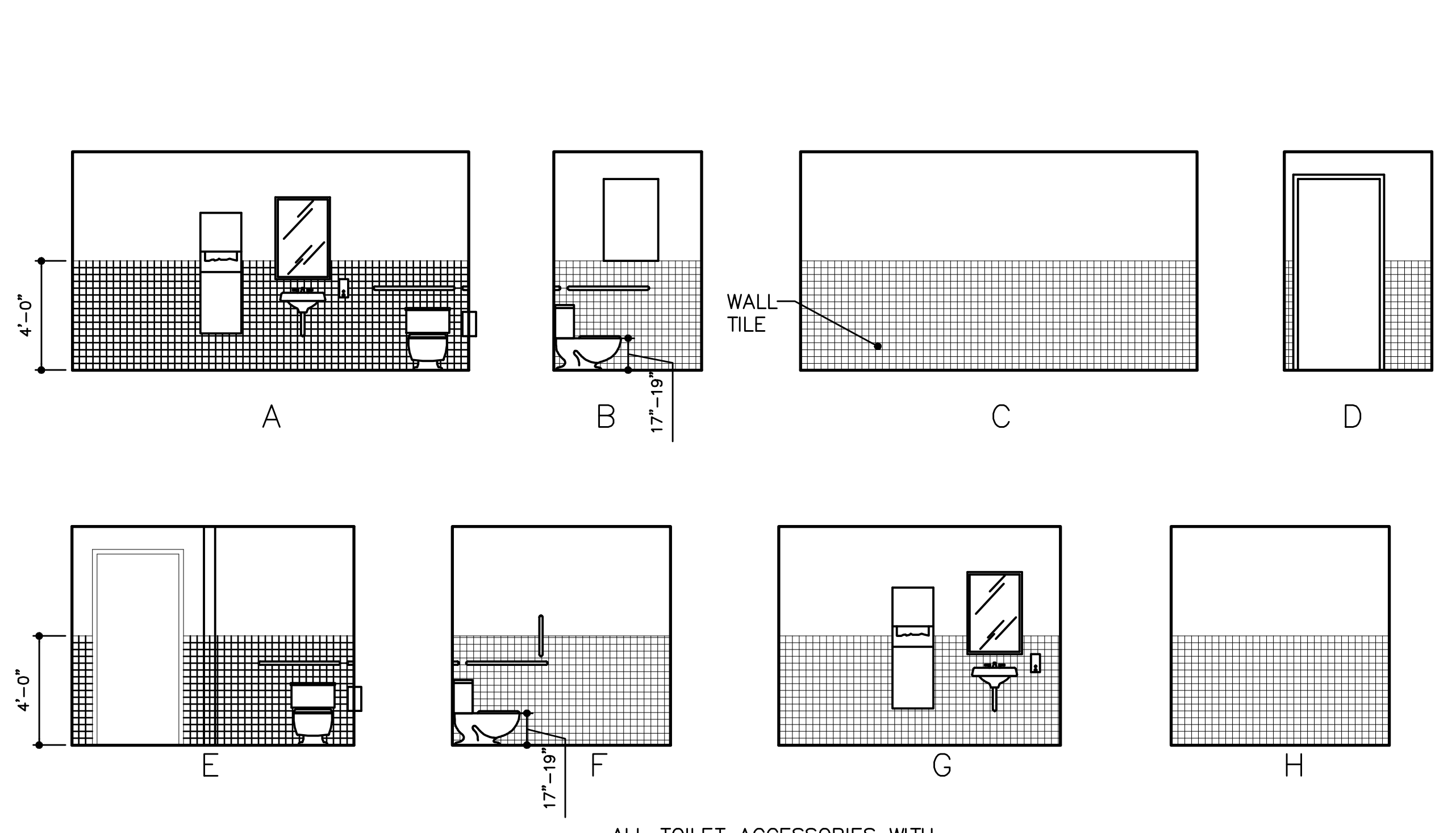
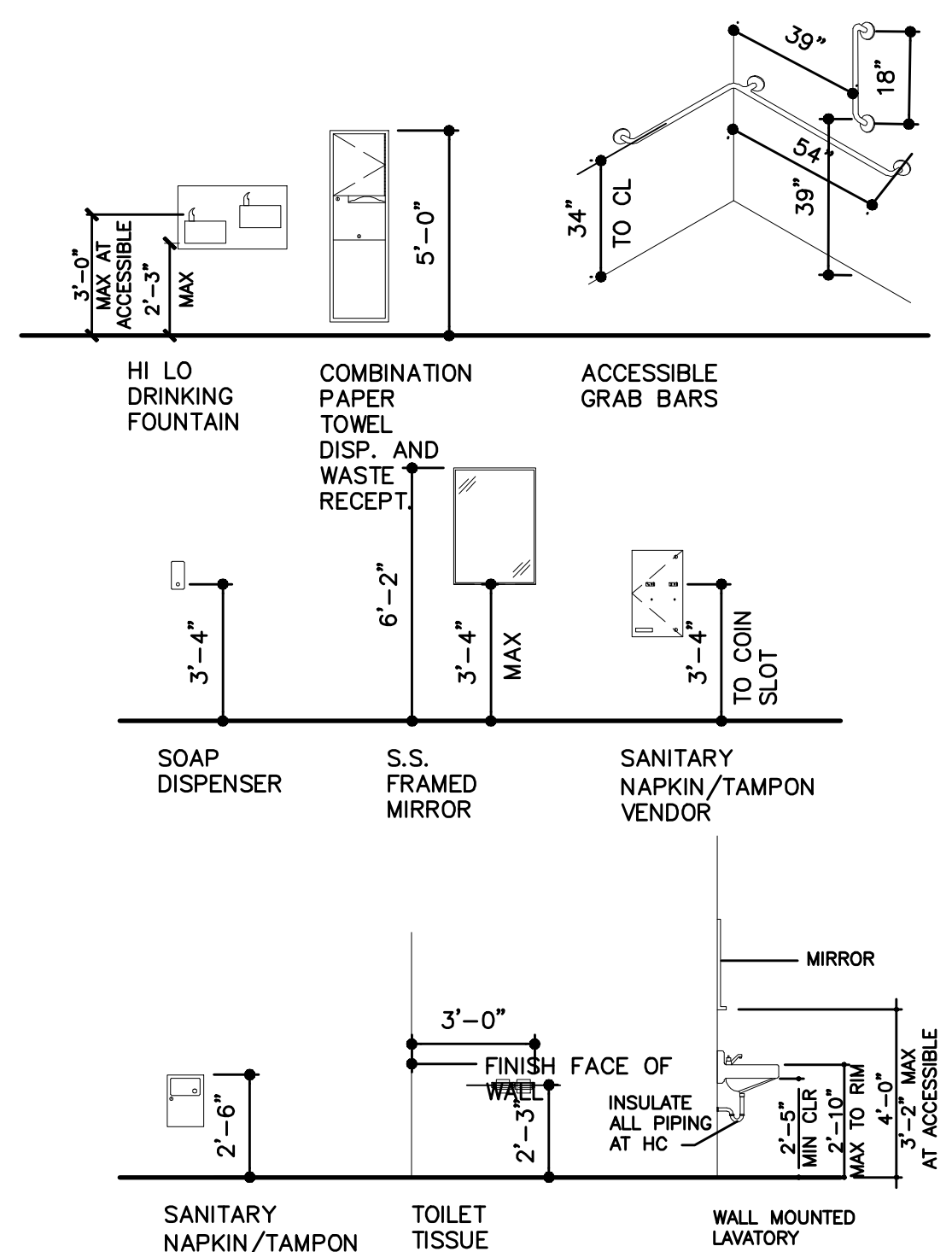
INTERIOR THRESHOLD DETAILS (A2.2)
SCALE: NTS



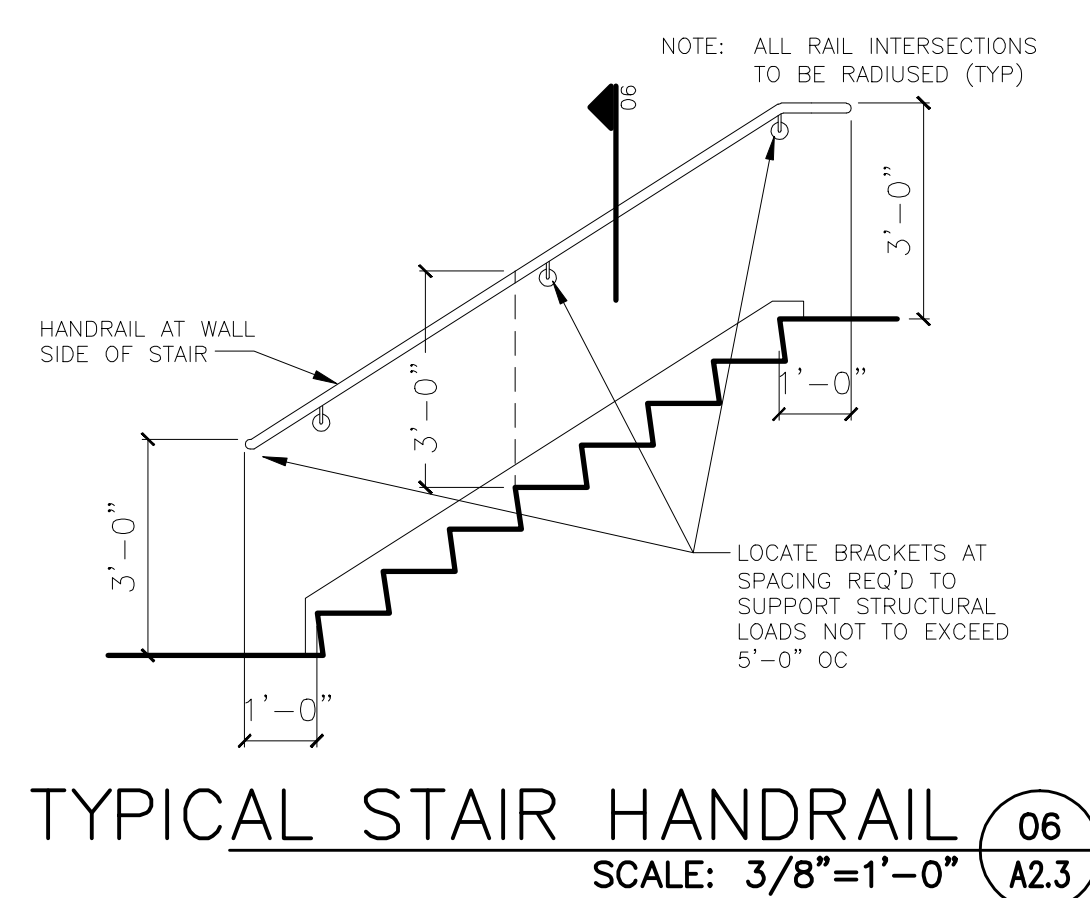
FRONT APPROACH SINK DETAIL (A2.2)
SCALE: 1"=1'-0"



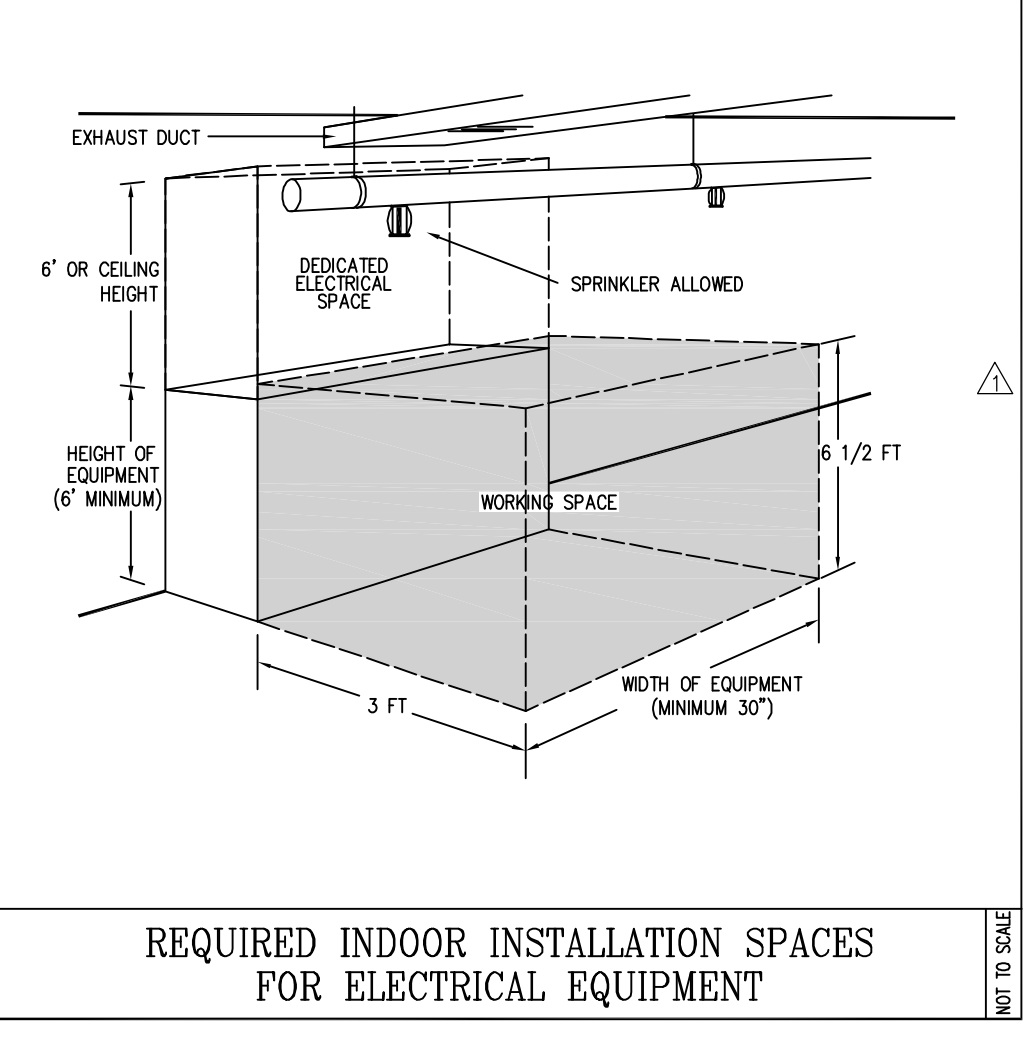
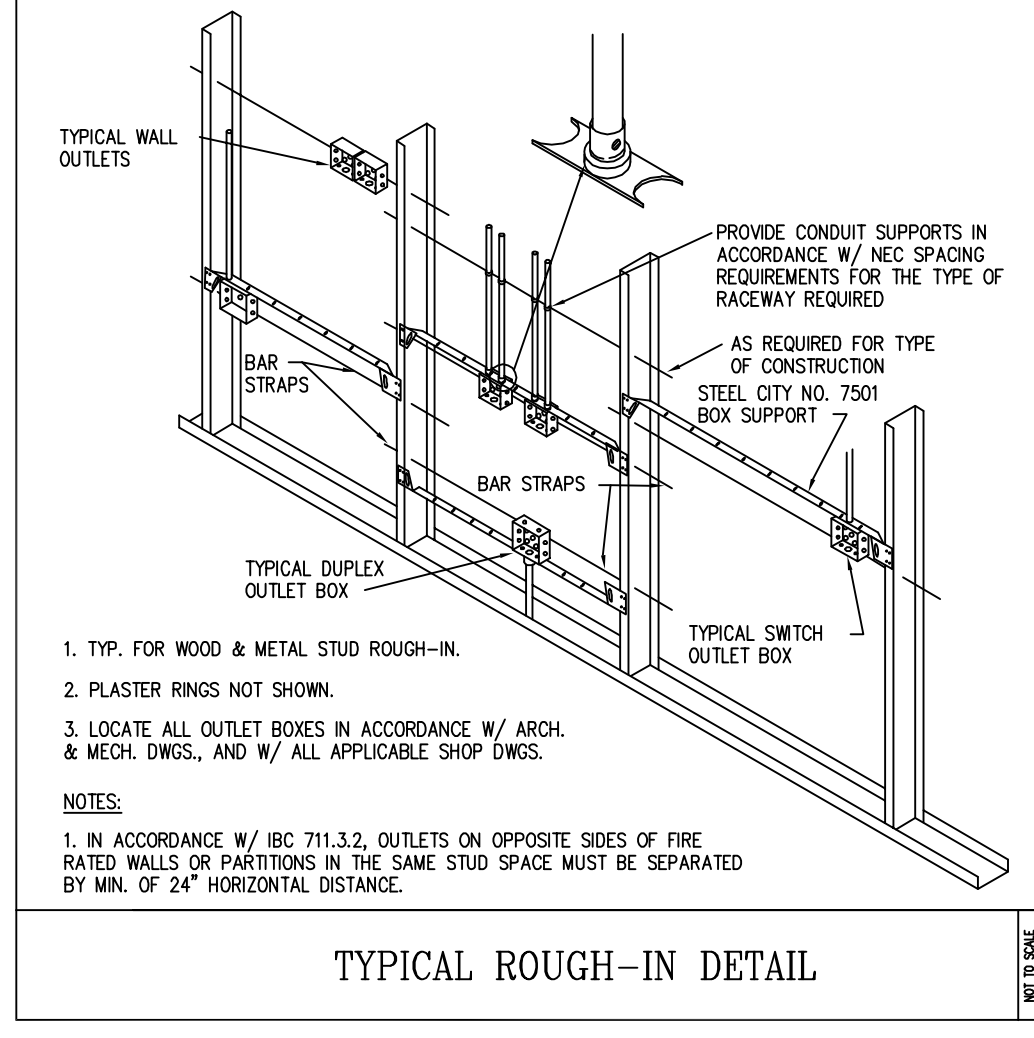
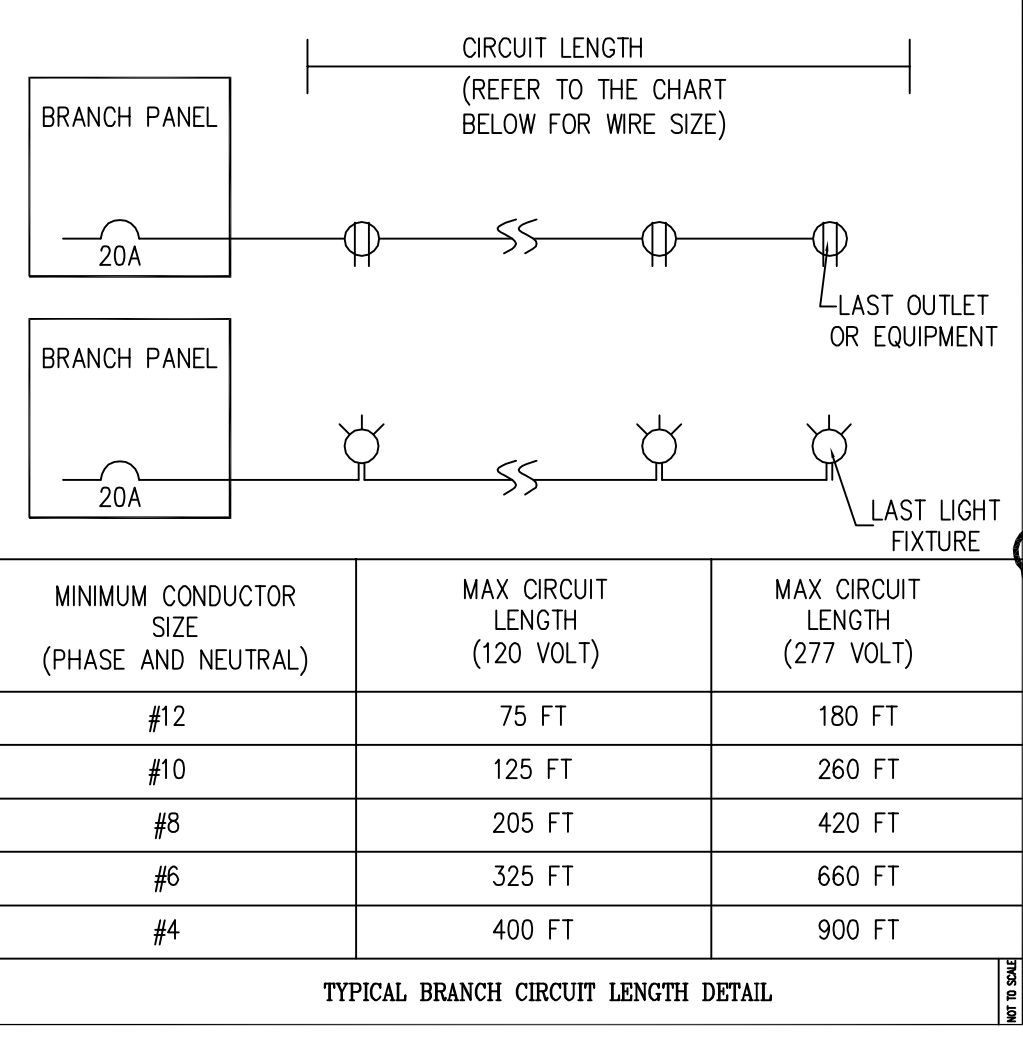
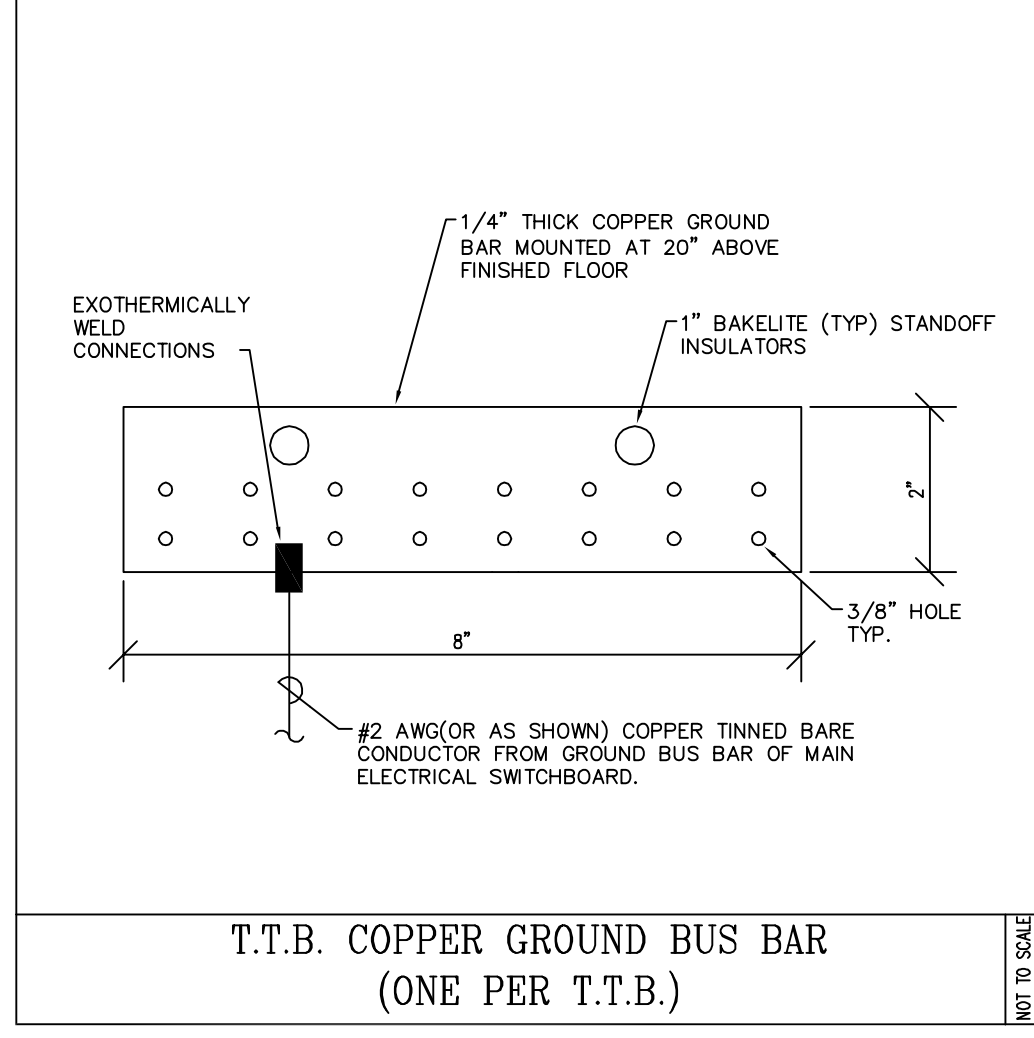
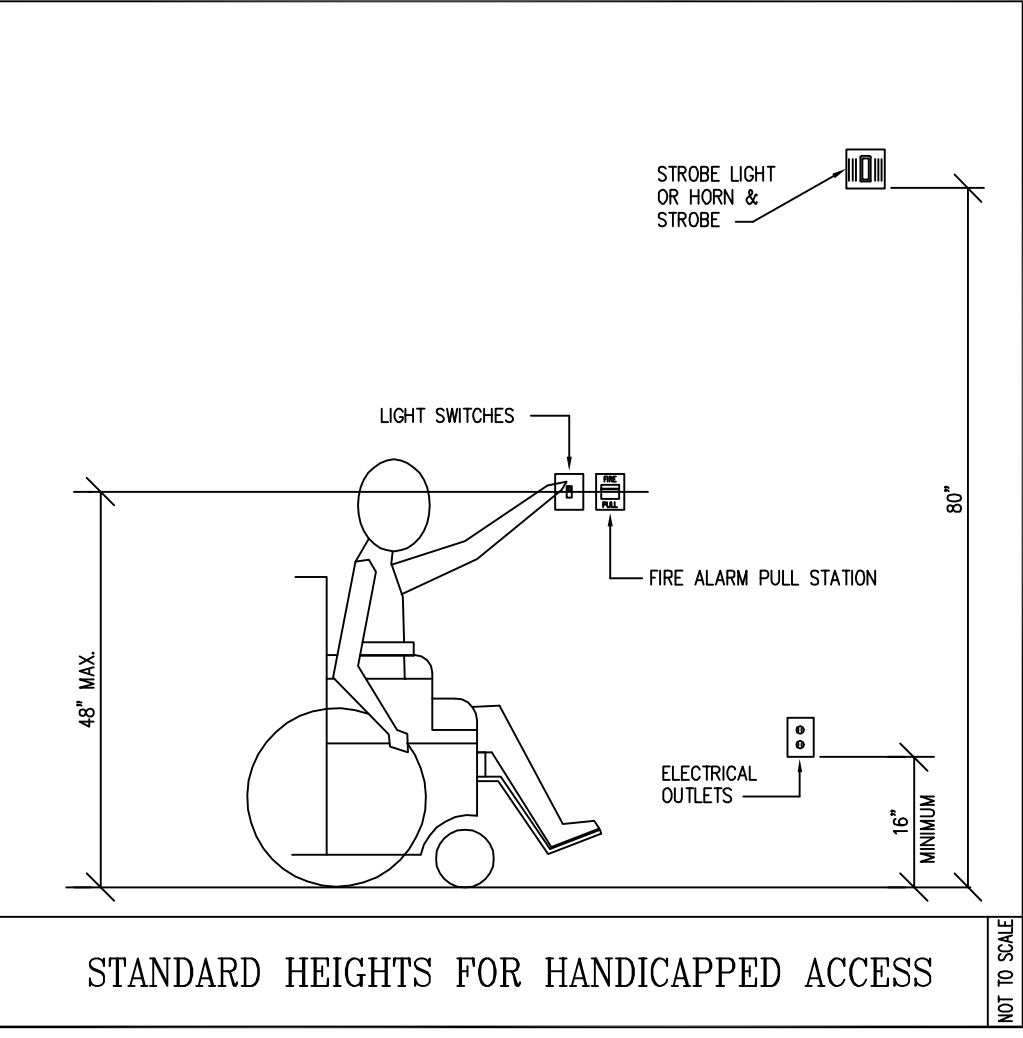
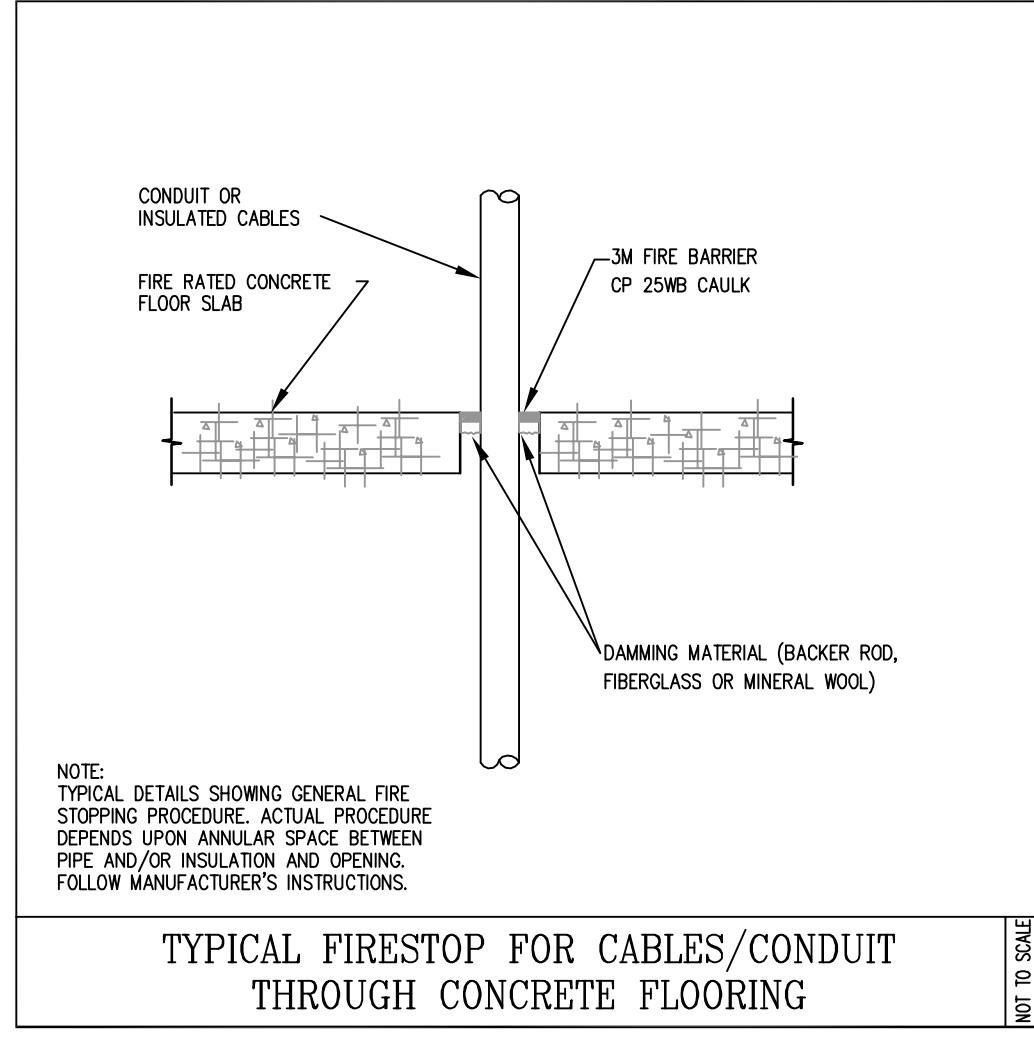
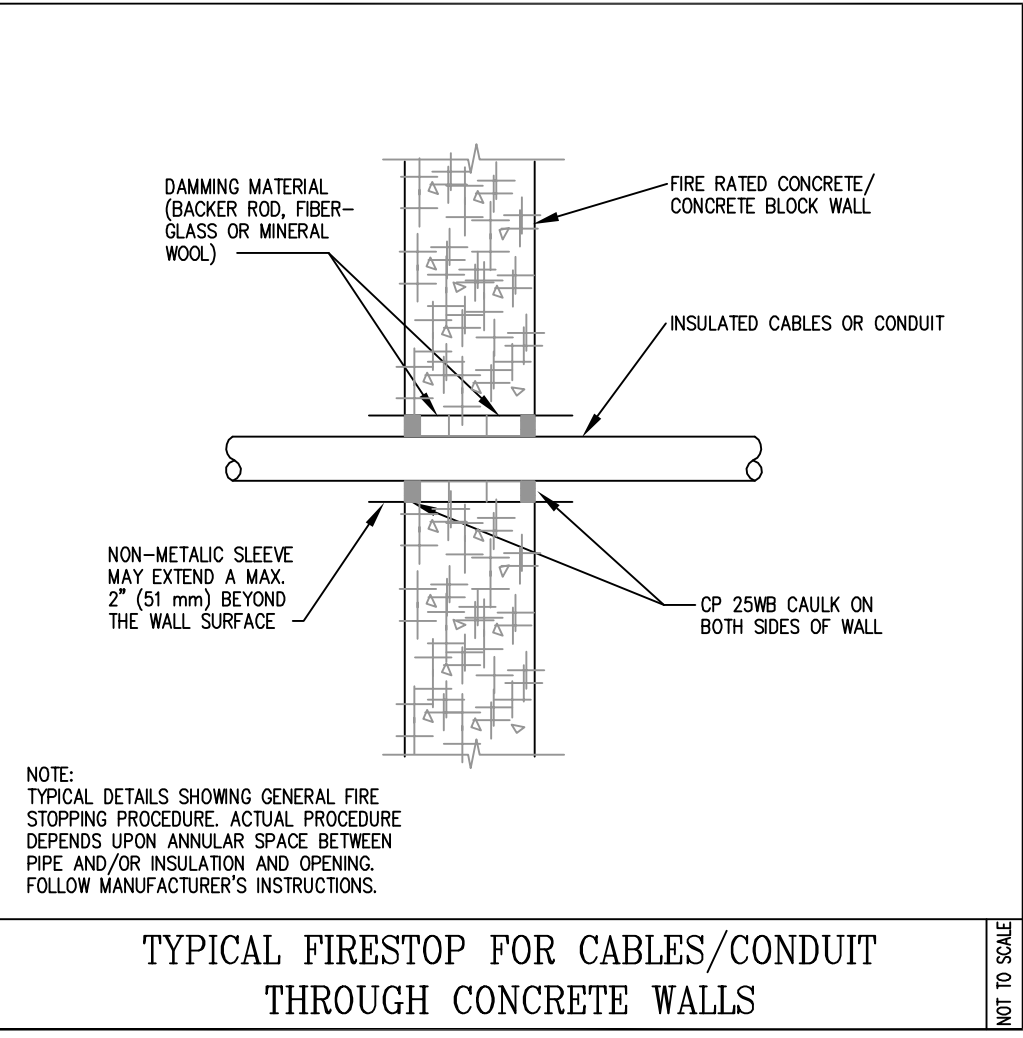
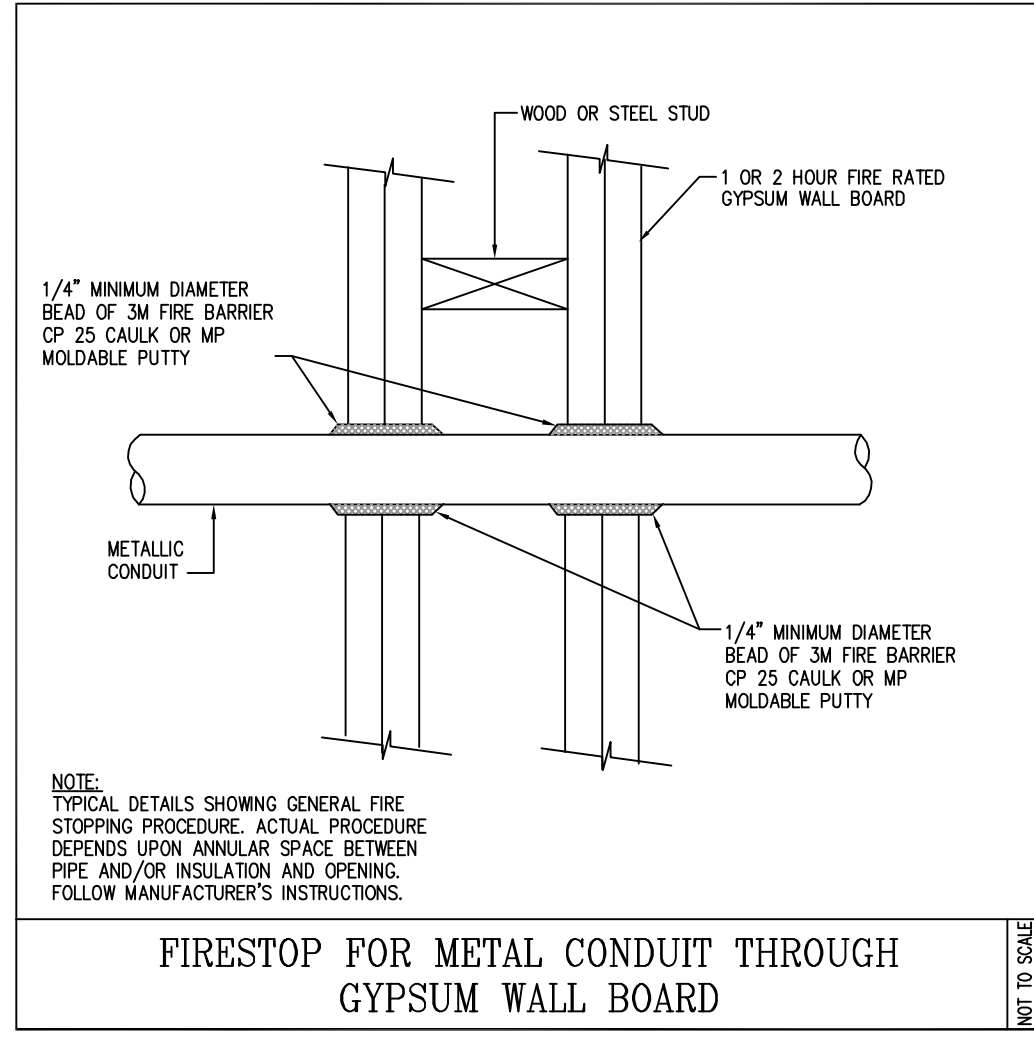
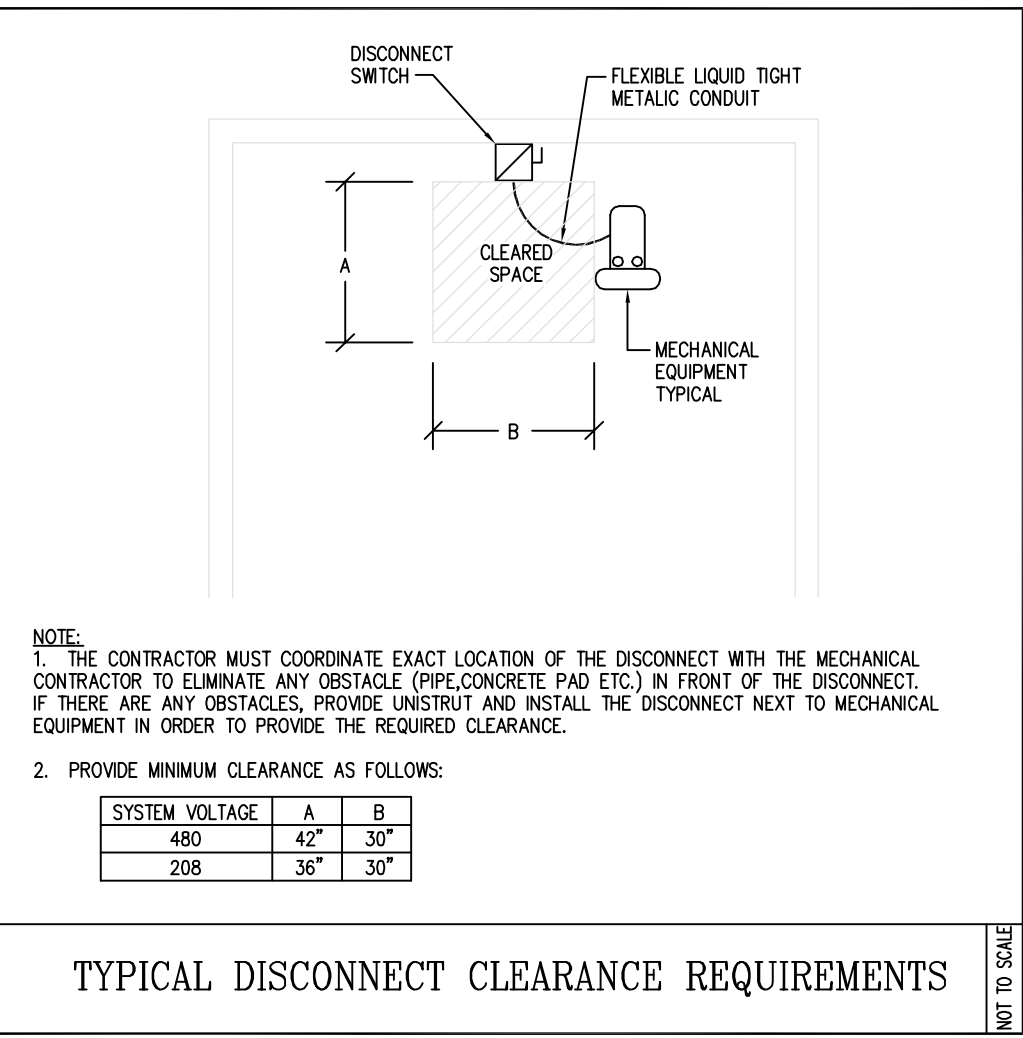
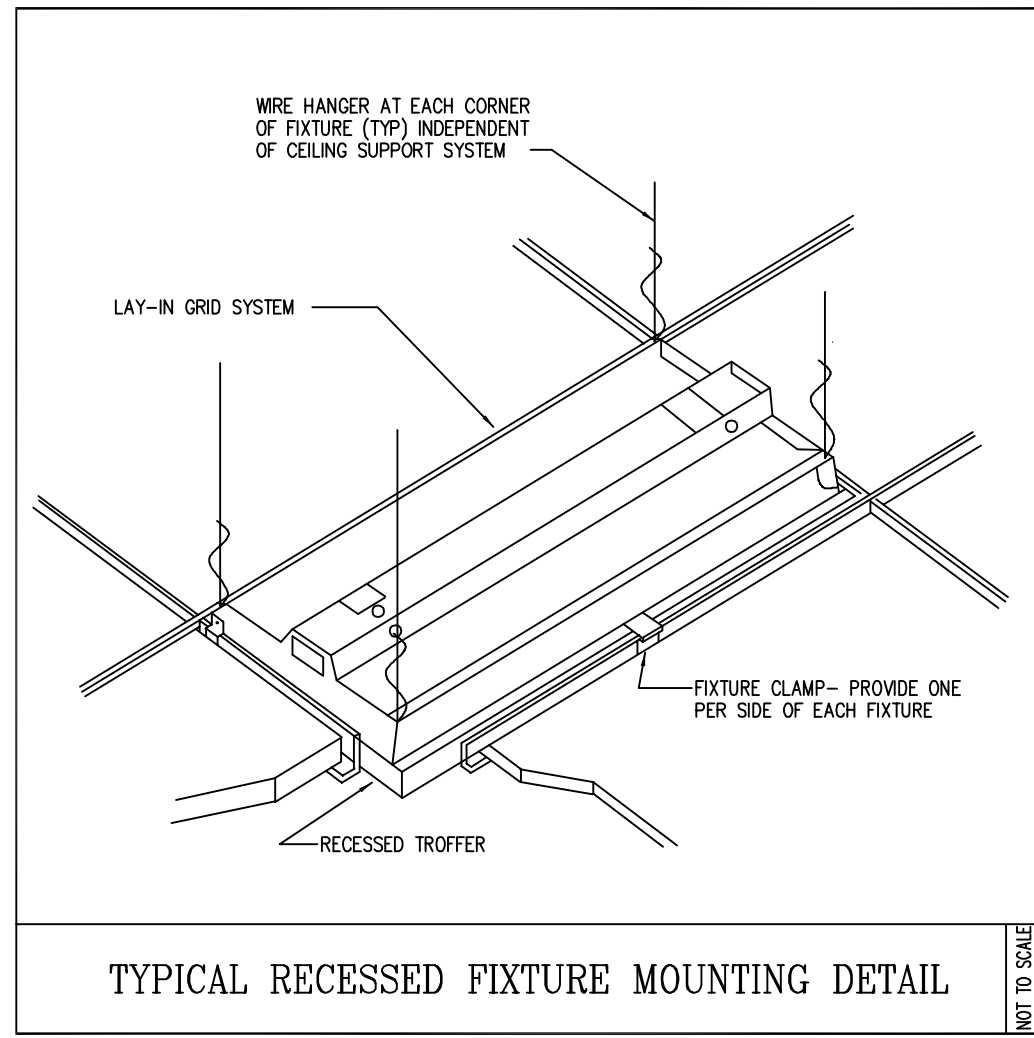
MILLWORK ELEVATIONS (A2.2) TYP. A.D.A. MOUNTING HGTS. (A2.2)
SCALE: 1/4"=1'-0"



T.R. ELEVATIONS (A2.2)
SCALE: 1/4"=1'-0"



A hexagonal logo with a thick black border. Inside the hexagon, the text "SHEET #" is written in a bold, sans-serif font at the top, and "A2.3" is written in a larger, bold, sans-serif font below it. The logo is positioned in the bottom right corner of the page.



MECHANICAL EQUIPMENT SCHEDULE									
NAME OF MECHANICAL EQUIPMENT	FURNACE	FURNACE	CONDENSING UNIT	CONDENSING UNIT	EXHAUST FAN	EXHAUST FAN	WATER HEATER		
EQUIPMENT NO.	F-1,2	F-3,4	CU-1,2	CU-3,4	EF-1,3	EF-2	WH-1		
RATING/WATTS	1 HP	1/2 HP	6 TON	3.5 TON	54	130	3KW		
VOLTAGE	120	120	208	208	120	120	208		
PHASE	1	1	1	1	1	1	1		
AMPS	16.0	9.8	34.2	23.5	0.5	1	14.4		
WIRE SIZE	2#12	2#12	2#8	2#8	2#12	2#12	2#12		
GROUND WIRE	1#12	1#12	1#10	1#10	1#12	1#12	1#12		
CONDUIT SIZE	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"		
FUSE DISC. SW.			60	60			30		
TYPE RFI FUSES			50	40			20		
BREAKER SIZE	20	20	50	40	20	20	20		
CIRCUIT									
NOTES	2	2	1	1	2	2	1		















































NOTES:

- STARTERS BE FURNISHED WITH UNIT. PROVIDE SITE DISCONNECT.
- PROVIDE THERMAL OVERLOAD SWITCH.

LIGHT FIXTURE SCHEDULE									
TYPE	DESCRIPTION	LAMP	MANUFACTURERS	CATALOG NUMBERS					
(T-1)	2'x4' FLUORESCENT LIGHT FIXTURE. RT5 STYLE. LOW BALLAST FACTOR.	2F32W T8	COLM METALUX	EPC24-232-DL-ELWU 2AC-232-UNV/ADVANCE IOP2832-LW-SC					
(T-2)	4'x8' DIRECT/INDIRECT FLUORESCENT LIGHT FIXTURE WITH 20% UPLIGHT AND 80% DOWNLIGHT. TO BE MOUNTED 6" FROM CEILING. LOW BALLAST FACTOR. REFER TO PLANS FOR LENGTH AND QUANTITY.	2F32W T8	LEDA	7306-T02-I-G-1-U-E-W					
(T-3)	WALL MOUNTED BELL SHAPE EXTERIOR LIGHT FIXTURE.	F32W T8	ALER AXIS	MDI-A-4-1UIDT8-WM-M4R-ELWU-4 TBW-5/SP-X-T8-K-MO-W-120-E-1-C7 ADVANCE IOP2832					
(T-4)	4' FLUORESCENT STRIPLIGHT WITH WIRE GUARD. LOW BALLAST FACTOR.	F32W T8	COLM METALUX	CS4-132-EPC-CSWG4 SS-132-UNV/WG/SS-4FT-U/ADVANCE IOP2832-LW-SC					
(T-5)	4" RECESSED WALL WASHER.	35W MR16	EURE RSA	H030-SFBA-1600C-9.43 MLV-38XX-C900					
(T-6)	8" APERTURE RECESSED DOWNLIGHT.	CF32W	PREES PORTFOLIO	CFIX32BE-STF802 CS042E-8001LI					
(T-7)	SAME AS T-7 EXCEPT WITH SHALLOW DEPTH. MAXIMUM DEPTH 4.5".	CF32W	SPECTRUM ATLANTIC	SGSH-132-EX-AR8315-CL AS88232E/1/2-32/8850CL					
(T-7A)	8" APERTURE RECESSED DOWNLIGHT WITH DECORATIVE BOWL.	2CF32W	SPEC VISA	SGM8H-2-32-EX-AR8435-CL-DSRB-24-44 CM1676					
(T-8)	GREEN LED EXIT SIGN WITH BATTERY PACK	INCLUDED	DUAL SOL ISOLITE	CV3GEW					

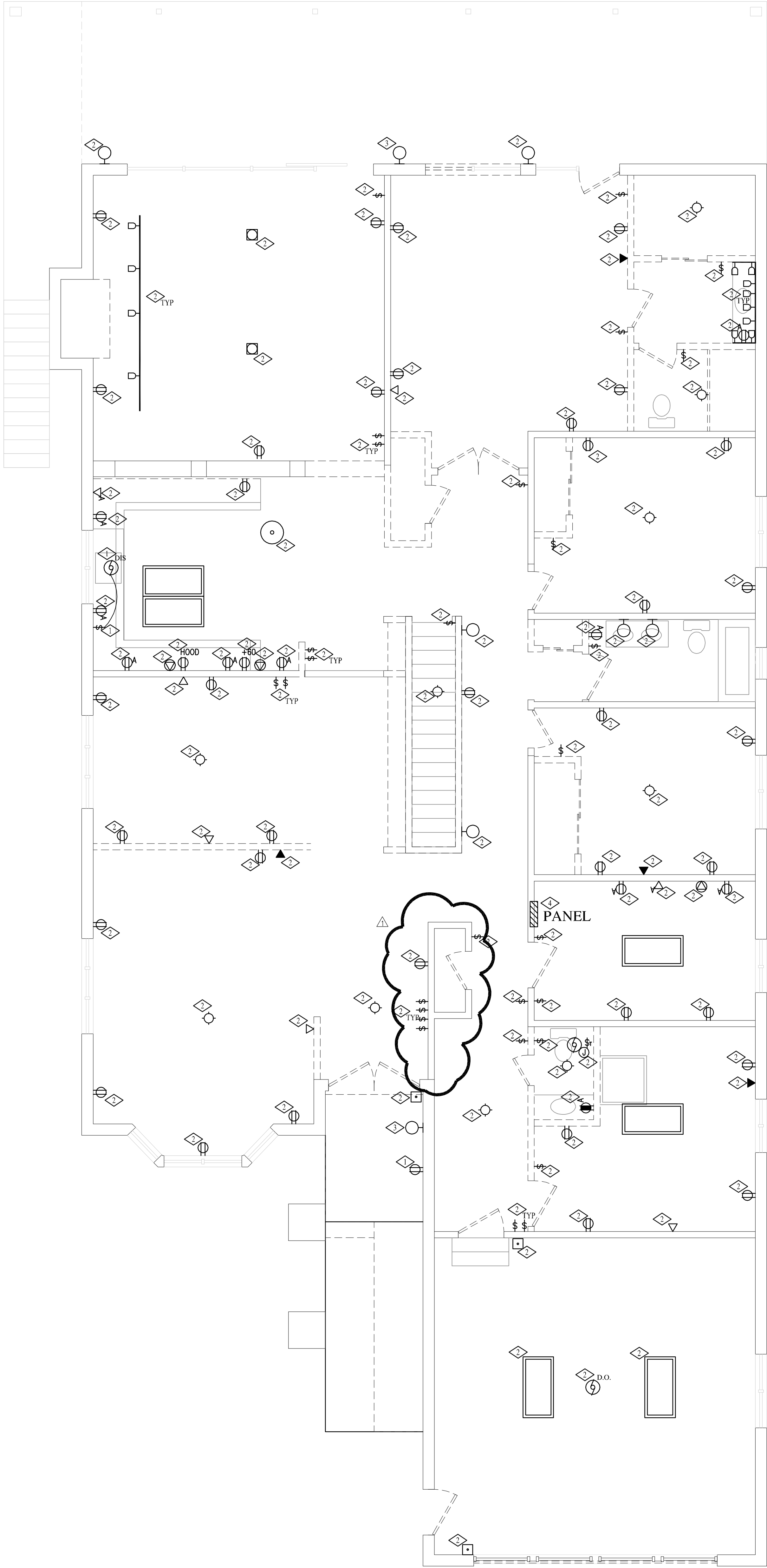
NOTES:

- ALL FLUORESCENT LIGHTS SHALL HAVE BALLASTS WITH ELECTRONIC PROGRAMMABLE START, MINIMUM POWER FACTOR OF 95%, LOW BALLAST FACTOR OF .78, AND 10% TOTAL HARMONIC DISTORTION. UNIVERSAL, ADVANCE, AND HOWARD ARE APPROVED. BALLASTS TO HAVE 5 YEAR WARRANTY.
- ALL FLUORESCENT LAMPS SHALL BE HIGH LUMEN AND HAVE 4100K COLOR TEMPERATURE.
- FIELD VERIFY ALL LIGHTING VOLTAGES PRIOR TO PLACING ANY ORDER.
- THE WRITTEN CRITERIA OF THE FIXTURE DESCRIPTION TAKE PRECEDENCE OVER THE CATALOG NUMBER.
- ALL MR16 LAMPS SHALL HAVE BOTTOM LENS AND BE RATED AT 10,000 HOURS.
- ALL METAL HALIDE LAMPS TO BE PULSE START.
- PROVIDE ADDITIONAL BALLAST FOR EMERGENCY LIGHT FIXTURES. REFER TO LIGHTING SHEETS.
- ALL FLUORESCENT FIXTURES SHALL HAVE INTERNAL QUICK DISCONNECTS AS PER NEC 410.7.3G.

ELECTRICAL SYMBOLS LIST	
SYMBOL	DESCRIPTION
LIGHTING SYMBOLS	
	RECESSED FLUORESCENT FIXTURE
	SURFACE MOUNTED FLUORESCENT FIXTURE
	INDUSTRIAL STRIP LIGHT
	RECESSED FIXTURE
	WALL MOUNTED FIXTURE
	LIGHT FIXTURE WITH NIGHT LIGHT
	SURFACE FIXTURE
	WALL SCONCE FIXTURE
	PENDANT MOUNTED FIXTURE
	FIXTURE ON EMERGENCY POWER
	EXIT LIGHT. ARROWS SHOW EXIT DIRECTION
	LIGHTING FIX CALL OUT. NUMBER INDICATES A SUGGESTED QUANTITY - TO BE VERIFIED
	REFERENCE NOTES CALL OUT
	INCANDESCENT TRACK AND FIXTURE
	SINGLE POLE TOGGLE SWITCH - 20 AMP*
	SINGLE POLE TOGGLE SWITCH - 20 AMP* LETTERS INDICATE SWITCH ASSIGNMENT
	THREE WAY TOGGLE SWITCH - 20 AMP* LETTERS INDICATE SWITCH ASSIGNMENT
	SINGLE POLE PILOT SWITCH - 20 AMP* LETTER INDICATE SWITCH ASSIGNMENT
	VERRIDE SWITCH - 20 AMP*
	LOW PROFILE SLIDE DIMMER - SUITABLE FOR THE LOAD
POWER SYMBOLS	
	DUPLEX CONVENIENCE OUTLET - 20 AMP
	DUPLEX CONVENIENCE OUTLET - 20 AMP GFI
	DUPLEX CONVENIENCE OUTLET - 20 AMP ELECTRIC WATER COOLER
	FOUR - PLEX CONVENIENCE OUTLET - 20 AMP
	SPECIAL PURPOSE THREE PHASE OUTLET
	JUNCTION BOX - SIZE AND FUNCTION AS REQUIRED
	EACH ARROW INDICATES A HOME RUN. RUN GROUND CONDUCTOR REGARDLESS OF CONDUIT TYPE. NUMBER OF CONDUCTORS AS REQUIRED
	FUSED DISCONNECT SWITCH - SIZE AS REQUIRED
	FLUSH TELEPHONE, DATA OUTLET
	FLUSH TELEPHONE OUTLET
	FLUSH DATA OUTLET
	MOTOR LOCATION
	MECHANICAL EQUIPMENT CALL OUT
	MANUAL DISCONNECT WITH THERMAL OVERLOAD PROTECTION
	ELECTRICAL PANEL LOCATION
	TELEPHONE TERMINAL BOARD
	DUAL TECH WALL MOUNTED OCCUPANCY SENSOR TO CONTROL LIGHTING IN THE ROOM
	DUAL TECH CEILING MOUNTED OCCUPANCY SENSOR TO CONTROL LIGHTING IN THE ROOM
	ELECTRICAL METER LOCATION
SPECIAL SYSTEMS SYMBOLS	
	HOOK FOR TELEPHONE MOUNTED 1/2" AFF UNLESS INDICATED OTHERWISE. RUN 3/4" CONDUIT TO NEAREST ACCESSIBLE CEILING SPACE.
GENERAL NOTE SYMBOLS	
	INDICATES WEATHER PROOF EQUIPMENT
	INDICATES DEVICE IS ABOVE COUNTER TOP 42" AFF REFER TO ARCHITECTURAL ELEVATION
	INDICATES DEVICES WITH LOW PROFILE WIRE GUARD. SUBMIT APPROVAL.
	INDICATES DEVICES MOUNTED ON THE CEILING. COORDINATE LOCATION WITH THE ARCHITECT.
	DEDICATED OUTLET FOR PRINTER/FAX
ABBREVIATIONS	
	HAND DRYER
	DOOR OPENER
	DISPOSAL

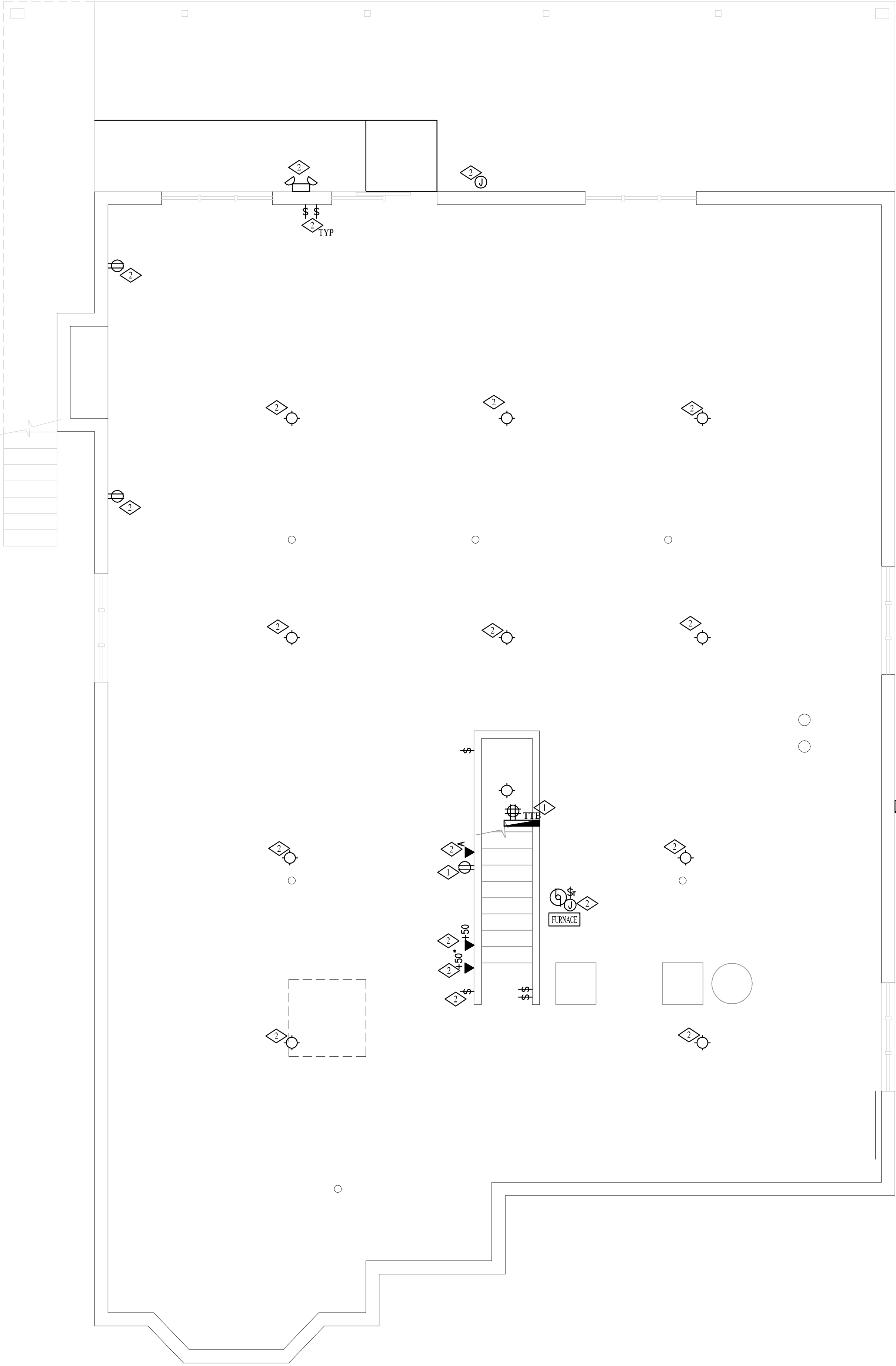
GENERAL NOTES:

- THE COLOR OF ALL THE NEW DEVICES AND COVER PLATES SHALL BE COORDINATED WITH ARCHITECT.
- REFER TO THE ARCHITECTURAL REFLECTED CEILING PLANS FOR THE EXACT LOCATION.
- THE COLOR OF THE LIGHT FIXTURES SHALL BE SELECTED BY THE ARCHITECT.
- MINIMUM SIZE OF CONDUIT IS 3/4". A 1/2" CONDUIT MAY BE USED FOR CONTROL CABLES.
- USE BRID STEEL SET SCREW TYPE FITTINGS ONLY. DO NOT FITTING SHALL NOT BE USED.
- SUPPORT THE LAY-IN FIXTURES FROM THE CEILING (DO NOT INDEPENDENT OF THE CEILING GRID AS SHOWN ON THE TYPICAL RECESSED FIXTURE MOUNTING DETAIL).
- ALL NEW WORK MUST MEET THE CURRENTLY ADOPTED NATIONAL ELECTRICAL CODE.
- NOT MORE THAN THREE (3) CIRCUITS SHALL BE INSTALLED IN A 3" CONDUIT.
- THE SIZE OF THE METALLIC CONDUCTORS SHALL BE A NO. 10 AND MINIMUM FOR ALL HOMERUNS WITH A COMMON NEUTRAL LIGHTING AND POWER CIRCUITS.
- THE MINIMUM SIZE OF THE CONDUCTORS SHALL BE A NO. 12 AWG, THIN COPPER, UNLESS INDICATED OTHERWISE THE DRAWINGS.
- ALL PANEL BOARDS SHALL HAVE FULL SEIZ ISOLATED NEUTRAL AND GROUNDED BUSBAR.
- ALL HOMERUNS MUST HAVE A MINIMUM DEPTH OF 3/4" UNLESS OTHER WIRE SPECIFIED. SECURE ALL J-BOXES AS SHOWN IN THE DETAILS. FURNISH AND INSTALL PROPER MED RINGS.
- ALL THE HOMERUNS MUST BE ACCESSIBLE. DO NOT CARRY A HOMERUN FROM ONE DEVICE TO ANOTHER WHICH IS TIED TO A SEPARATE HOMERUN INSIDE THE WALL. MARK ON ALL THE J-BOXES THE CIRCUIT NAMES AND NUMBERS. USE NO. 10 THIN CONDUCTORS FOR HOMERUNS OVER 100 FEET IN LENGTH AND 5 FEET FOR OVER 30 FEET, AND NO. 4 THIN FOR OVER 400 FEET.
- COORDINATE WITH THE OWNER AND ARCHITECT FOR THE EXACT LOCATION OF THE OUTLETS.
- LIGHT SWITCHES INSTALLED ADJACENT TO EACH OTHER, SHALL BE GANGED TOGETHER WITH A ONE PICE COVER PLATE.
- USE EPOXY ANCHORS TO SUPPORT THE ELECTRICAL EQUIPMENT. EXPANSION ANCHOR BOLTS ARE NOT ACCEPTABLE.
- AT THE END OF THE JOB, PROVIDE BLANK, MATCHING COVER PLATES FOR ALL J-BOXES WHERE DEVICES HAVE NOT YET BEEN INSTALLED.
- SEAL AROUND ALL CONDUIT PENETRATIONS THROUGH WALLS AND CEILINGS WITH A FIRE RATED MATERIAL. 3M IS AN APPROVED MANUFACTURER.
- ALL DISCONNECTS SHALL BE OF A HEAVY D



FIRST FLOOR PLAN - ELECTRICAL DEMOLITION

SCALE 1/4"=1'-0"



BASEMENT PLAN - ELECTRICAL DEMOLITION

SCALE 1/4"=1'-0"

REFERENCE NOTES:

- ◊ EXISTING DEVICES TO REMAIN. MAINTAIN CIRCUIT INTEGRITY.
- ◊ EXISTING DEVICES TO BE REMOVED.
- ◊ EXISTING DEVICES TO BE REMOVED. THE CONTRACTOR IS ALLOWED TO REUSE EXISTING CONDUIT IF POSSIBLE. FIELD VERIFY.
- ◊ EXISTING PANEL TO BE REPLACED AND RELOCATED INTO HALLWAY. REFER TO SHEET EP-101 FOR NEW PANEL LOCATION.

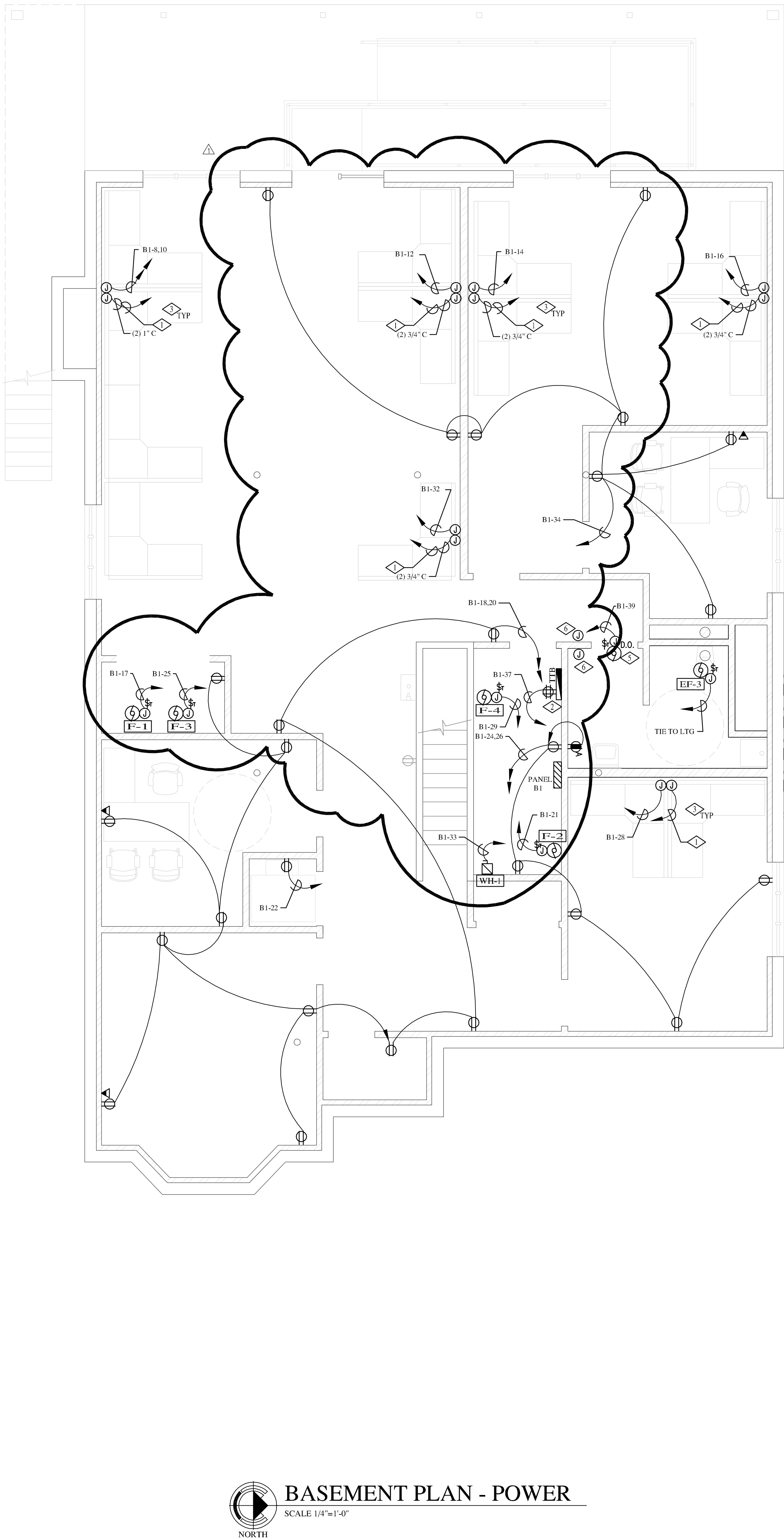
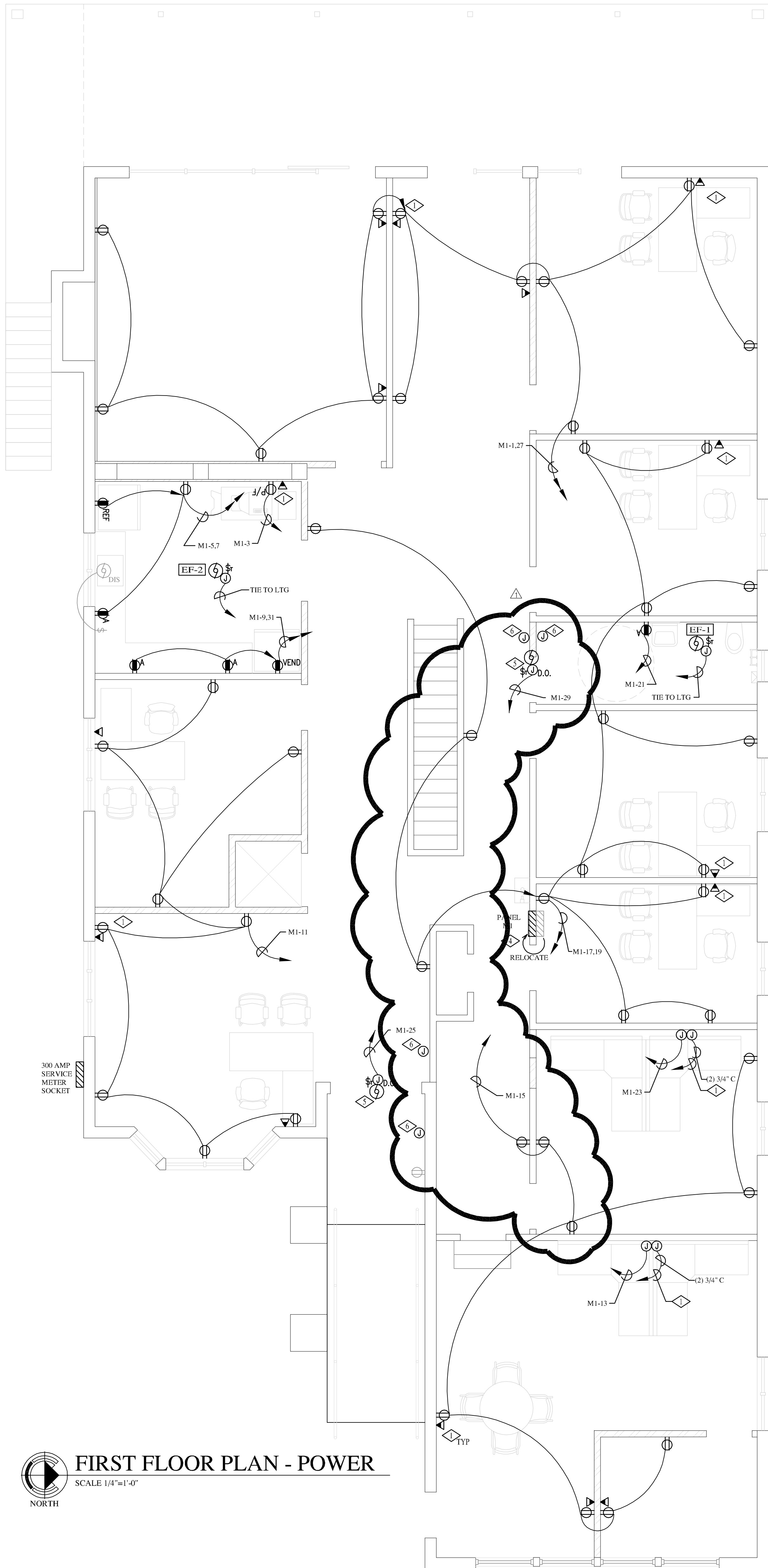
DEMOLITION NOTES:

- IN THE EXISTING SPACE TO BE RENOVATED, THE CONTRACTOR SHALL REMOVE ALL LIGHT FIXTURES, SWITCHES, WIRING, WIRING DEVICES, CONDUITS, FIRE ALARM DEVICES, SPEAKERS, VOLUME CONTROLS, ETC. AS REQUIRED WHETHER OR NOT SHOWN ON THE DRAWINGS. COORDINATE WITH THE GENERAL CONTRACTOR PRIOR TO ANY DEMOLITION WORK AND REINSTALL DEVICES ON THE NEW CEILING IF NECESSARY.
- ALL MATERIALS THAT ARE TO BE REMOVED FROM THE PREMISES SHALL BE RETURNED TO THE OWNER. MATERIALS WHICH THE OWNER DECIDES NOT TO KEEP SHALL BE SALVAGED AND REMOVED FROM THE SITE BY THE CONTRACTOR.
- ALL CONCEALED CONDUITS THAT CANNOT BE REMOVED SHALL BE CUT FLUSH WITH THE FINISHED SURFACES AND CAPPED OFF AFTER THE WIRING HAS BEEN DISCONNECTED AT THE PANEL AND REMOVED FROM THE CONDUIT.
- IN AREAS WHERE CIRCUIT CONTINUITY IS INTERRUPTED, BUT MUST BE MAINTAINED BECAUSE OF THE NATURE OF THE FACILITY, MAKE ALL THE NECESSARY MODIFICATIONS TO THE CIRCUITS IN ORDER TO MAINTAIN THE CIRCUIT'S INTEGRITY.

REVISIONS:

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REFERENCE NOTES: POWER

- ◇ FURNISH AND INSTALL A 4"x4"x2-1/8" J-BOX IN THE APPROXIMATE LOCATION SHOWN FOR VOICE/DATA. RUN INDICATED SIZE AND QUANTITY OF CONDUIT WITH A PULL-STRING (MINIMUM OF TWO 3/4" CONDUIT WHERE VOICE/DATA OUTLET IS SHOWN) FROM THE J-BOX TO THE NEAREST ACCESSIBLE CEILING SPACE ON THIS FLOOR. COORDINATE WITH THE OWNER/ARCHITECT FOR EXACT LOCATION PRIOR TO ROUGH-IN.
- ◇ FURNISH AND INSTALL A 4'X8'X3/4" PLYWOOD WITH TWO LAYERS OF FIRE RETARDANT PAINT IN THE APPROXIMATE LOCATION SHOWN FOR THE TELEPHONE TERMINAL BOARD (TTB). RUN 250 FEET OF 4" CONDUIT WITH A PULL-STRING FROM THE TTB TO THE COMMUNICATION PEDESTAL OUTSIDE. FIELD VERIFY LOCATION OF COMMUNICATIONS PEDESTAL. COORDINATE THIS WORK WITH THE LOCAL COMMUNICATION COMPANY PRIOR TO RUNNING THE CONDUIT.
- ◇ MAKE FINAL CONNECTION TO THE SYSTEM FURNITURE. COORDINATE WITH SUPPLIER PRIOR TO ROUGH-IN.
- ◇ EXTEND EXISTING CIRCUITS AND FEEDERS IN EXISTING PANEL TO NEW LOCATION IN NEW PANEL. PROVIDE CONDUIT, CONDUCTORS, J-BOX, ETC. FOR A COMPLETE INSTALLATION. REPLACE THE EXISTING PANEL. REFER TO THE PANEL SCHEDULE.
- ◇ FURNISH AND WIRE CONTROL SWITCHES PROVIDED BY SUPPLIER. COORDINATE THIS WORK WITH THE ARCHITECT.
- ◇ INSTALL AND WIRE PUSH BUTTON FURNISHED BY DOOR OPENER SUPPLIER. COORDINATE LOCATION AND REQUIREMENTS WITH THE SUPPLIER.

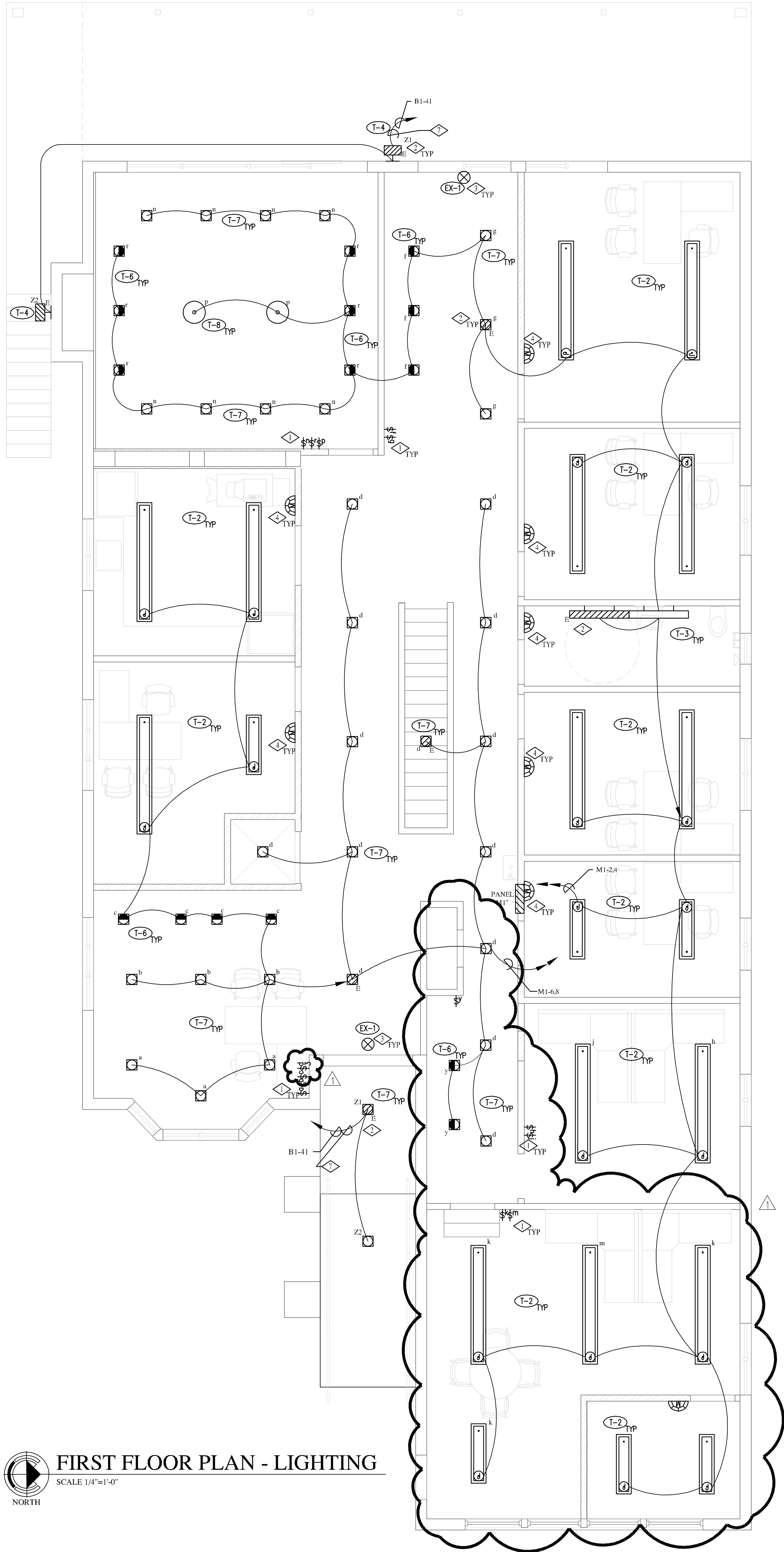
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- △ ADDENDUM #1 01/20/2009

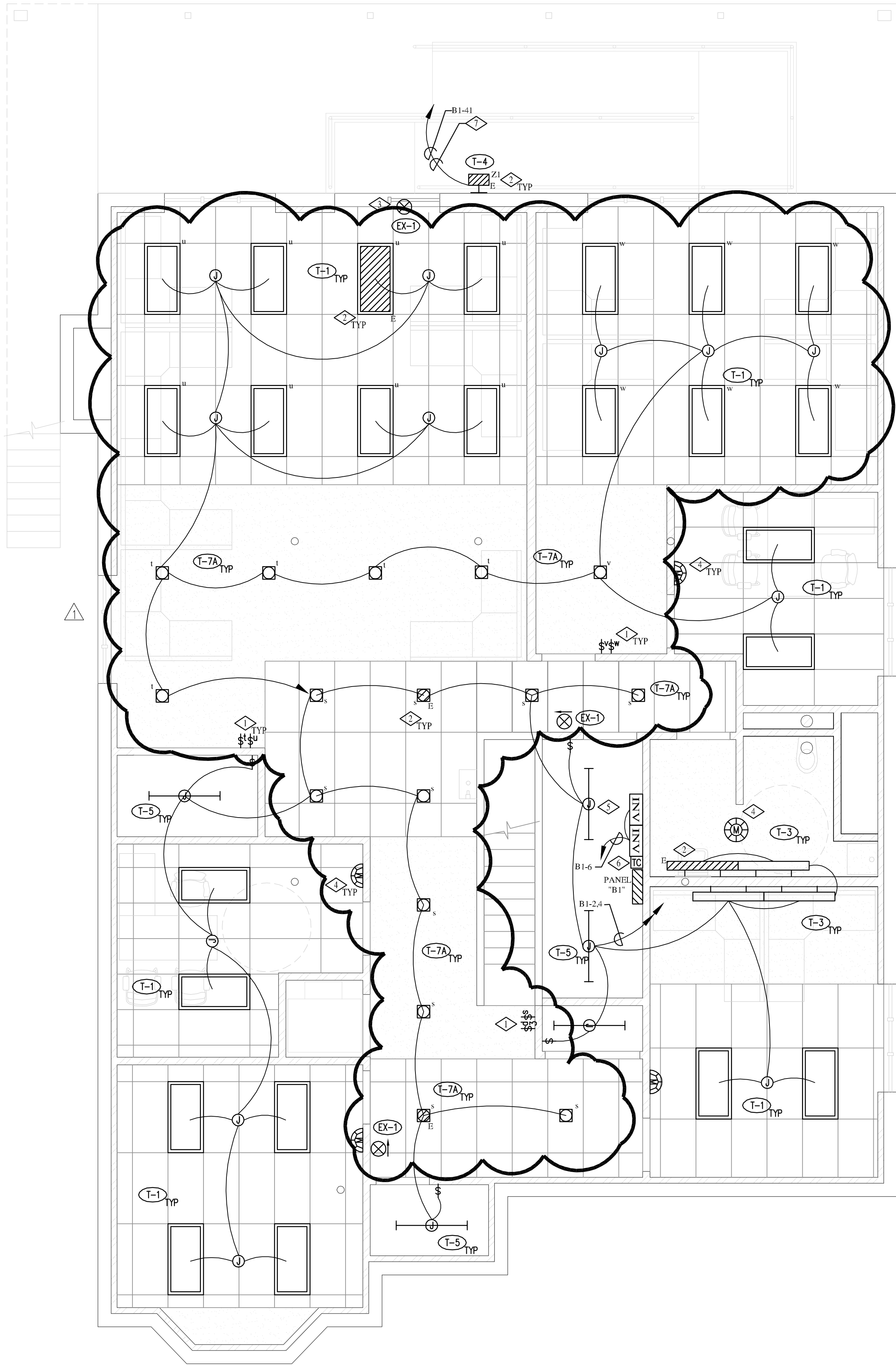
FIRST FLOOR PLAN - POWER
SCALE 1/4"=1'-0"

BASEMENT PLAN - POWER
SCALE 1/4"=1'-0"





FIRST FLOOR PLAN - LIGHTING
SCALE 1/4"=1'-0"



BASEMENT PLAN - LIGHTING
SCALE 1/4"=1'-0"

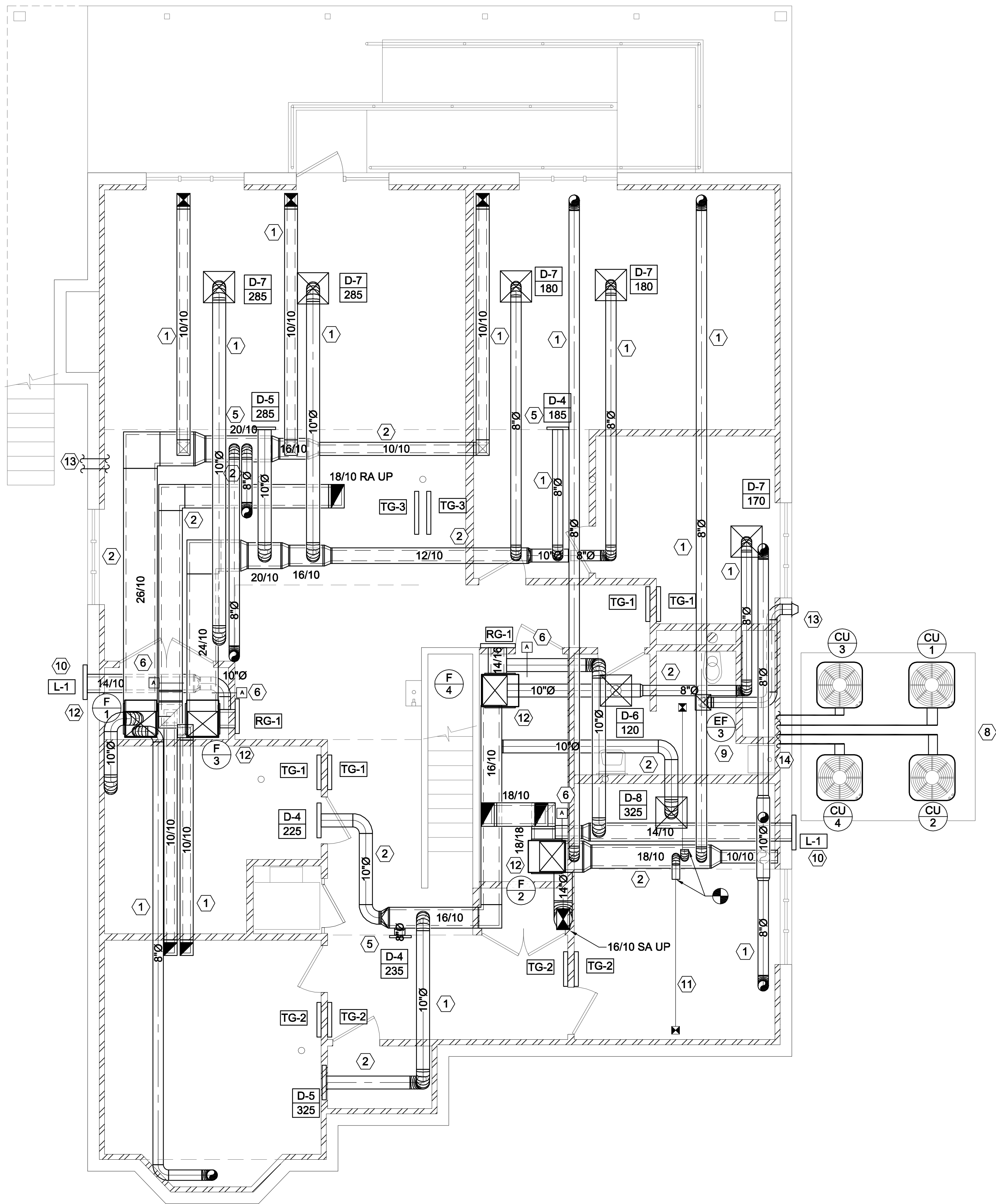
REFERENCE NOTES: LIGHTING

- 1. TIE ALL FIXTURES INDICATED WITH A LOWER CASE LETTER TO ITS CORRESPONDING SWITCHES), PROVIDE CONDUITS, CONDUCTORS, LIGHTING CONTACTORS, ETC. FOR A COMPLETE INSTALLATION.
- 2. EMERGENCY LIGHT FIXTURES INDICATED WITH THE LETTER "E" SHALL BE PROVIDED WITH A SEPARATE BALLAST FOR THE CENTER LAMP. ONE LAMP IN THE LIGHT FIXTURE SHALL BE TIED TO THE EMERGENCY INVERTER AND TURN ON WHEN THE COMMERCIAL POWER FAILS REGARDLESS OF THE POSITION OF THE CONTROL SWITCH. ALL THE LAMPS IN THE FIXTURE SHALL BE CONTROLLED BY THE INDICATED SWITCH. PROVIDE CONDUITS, CONDUCTORS, ETC. FOR A COMPLETE INSTALLATION. RUN THE EMERGENCY CIRCUIT IN A SEPARATE RACEWAY. PROVIDE RELAY EQUAL TO BODINE GTD.
- 3. TIE EMERGENCY LIGHT FIXTURES AND EXIT SIGNS TO AN UNSWITCHED EMERGENCY LIGHTING CIRCUIT. PROVIDE CONDUITS, CONDUCTORS, RELAY BALLASTS, ETC. FOR A COMPLETE INSTALLATION.
- 4. FURNISH AND INSTALL A WALL MOUNTED MOTION SENSOR TO CONTROL THE LIGHT FIXTURES IN THE ROOM. SET THE TIME DELAY FOR 30 MINUTES. WATT STOPPER, LITHONIA, LEVITON, & SENSOR SWITCH ARE THE APPROVED MANUFACTURERS.
- 5. FURNISH AND INSTALL TWO 250 WATT EMERGENCY INVERTERS IN THE APPROXIMATE LOCATION TO FEED THE EMERGENCY LIGHTS. TIE THE EMERGENCY LIGHTS FIXTURE TO THE INVERTER UTILIZING SEPARATE RACE WAY THAN THE NORMAL LIGHTING CIRCUIT. CONDUIT, CONDUCTORS, RELAY, ETC., FOR A COMPLETE INSTALLATION. GUTH IS AN APPROVED MANUFACTURER.
- 6. FURNISH AND INSTALL A 2 ZONE DIGITAL ASTRONOMICAL TIME CLOCK WITH BATTERY BACKUP IN THE APPROXIMATE LOCATION SHOWN TO CONTROL THE EXTERIOR LIGHTING. PROGRAM THE TIME CLOCK AS PER OWNER'S REQUIREMENT. PROVIDE CONDUIT, CONDUCTORS, ETC., FOR A COMPLETE INSTALLATION. THE TIME CLOCK SHALL BE EQUAL TO LEVITON EZMAX-RE4BD-104 (120 VOLT).
- 7. TIE THE EXTERIOR LIGHT FIXTURE TO INDICATED CIRCUIT THROUGH THE TIME CLOCK ON THE ZONE SHOWN. PROVIDE CONDUIT, CONDUCTORS, RELAY, ETC., FOR A COMPLETE INSTALLATION.

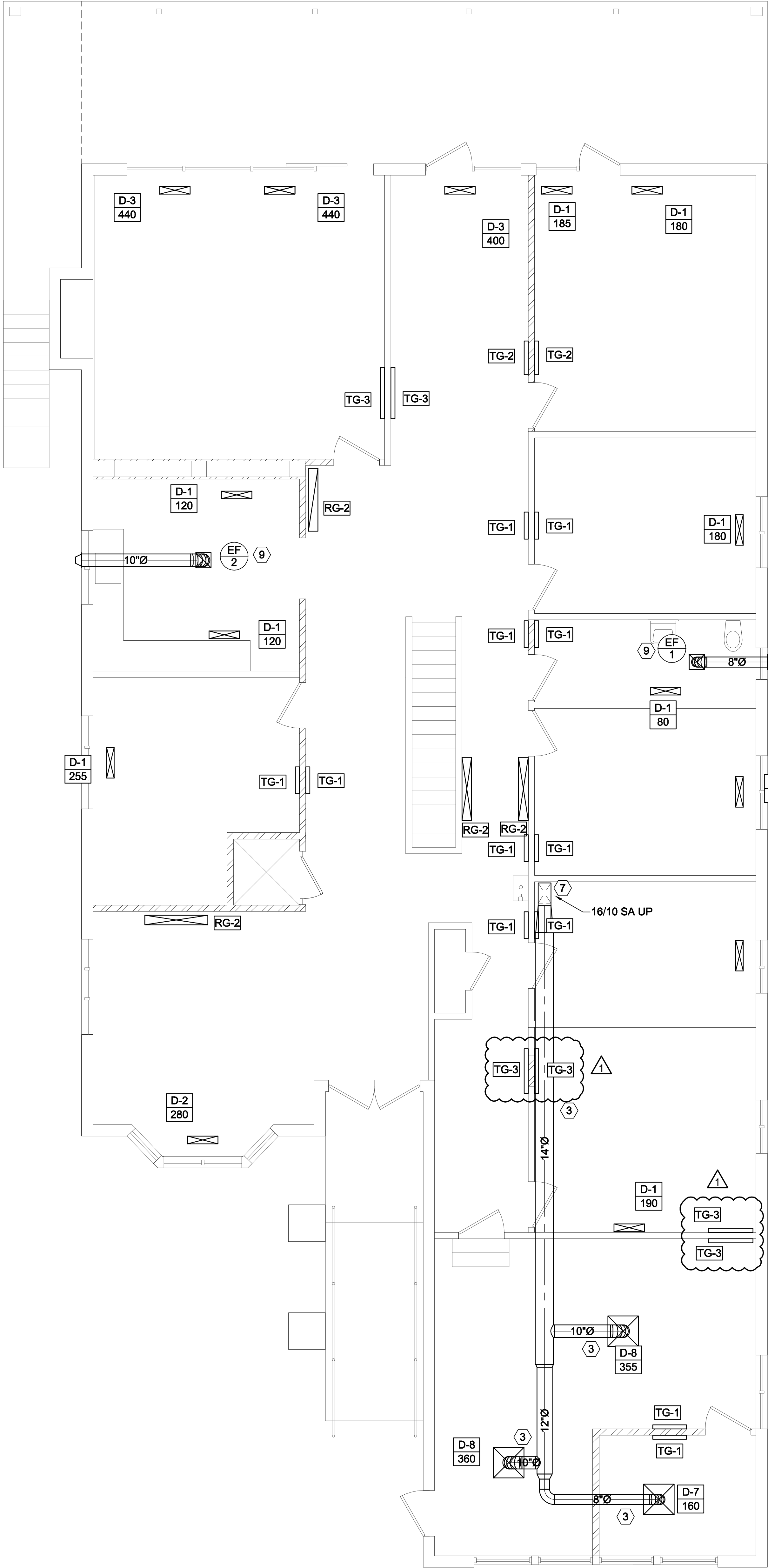
REVISIONS:

- 1. ADDENDUM #1 01/20/2009





MECHANICAL BASEMENT FLOOR PLAN
SCALE: 1/4" = 1'-0"



MECHANICAL FIRST LEVEL FLOOR PLAN
SCALE: 1/4" = 1'-0"

- SHEET NOTES:**
- DUCT WORK RUN BETWEEN JOISTS IN BASEMENT CEILING SPACE.
 - DUCT WORK RUN BELOW JOISTS IN BASEMENT CEILING SPACE.
 - DUCT WORK RUN IN ATTIC SPACE ABOVE FIRST FLOOR CEILING.
 - REUSE EXISTING FLOOR PENETRATION WHERE POSSIBLE.
 - SIDEWALL SUPPLY GRILL IN SOFFIT. COORDINATE WITH ARCHITECTURAL PLANS FOR EXACT SOFFIT LOCATION.
 - PROVIDE AUTOMATIC MINIMUM OUTSIDE AIR DAMPER.
 - RUN DUCT IN CHASE. COORDINATE WITH ARCHITECTURAL PLANS.
 - COORDINATE WITH ARCHITECTURAL PLANS FOR HOUSE KEEPING PAD. PROVIDE REFRIGERANT PIPING TO COOLING COILS PER MANUFACTURERS RECOMMENDATIONS.
 - PROVIDE CEILING MOUNTED EXHAUST FAN WITH MANUFACTURERS WALL CAP. COORDINATE WITH G.C. FOR ALL NEW WALL PENETRATIONS.
 - PROVIDE NEW FRESH AIR LOUVER IN WALL. COORDINATE WITH G.C. FOR CUTTING OF WALL.
 - RE-CONNECT TO EXISTING DUCT WORK.
 - PROVIDE NEW FURNACE SPLIT SYSTEMS. PROVIDE REFRIGERANT PIPING. CONNECT ALL SUPPLY AND RETURN DUCTS WITH FLEX CONNECTIONS. PROVIDE TRANSITIONS AS NECESSARY.
 - PROVIDE FLUE AND COMBUSTION AIR PIPING PER MANUFACTURERS REQUIREMENTS. MAINTAIN A MINIMUM OF 10' FROM FRESH AIR LOUVERS. COORDINATE EXACT LOCATION AND RATING WITH FIELD CONDITIONS, AND ALL OTHER DISCIPLINES.
 - PROVIDE REFRIGERANT PIPING FROM OUTDOOR CONDENSING UNIT TO INDOOR FURNACE. COORDINATE SIZING ON CHART ME5.2 AND MANUFACTURERS GUIDELINES.

- GENERAL NOTES:**
- MOUNT SIDEWALL RETURN AND TRANSFER GRILLES AT 6" A.F.F..
 - ALL FLOOR GRILLES SHALL BE NEW. COORDINATE WITH G.C. TO MODIFY FLOOR PENETRATIONS AS NECESSARY.

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ADDENDUM 1 - JAN. 20, 2005

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UTAH VALLEY UNIVERSITY
MURDOCK GUEST HOUSE ADAPTIVE RE-USE
519 WEST 1200 SOUTH DREM UTAH

DATE: 12-19-08

PHASE: CD

DRAWING: MECHANICAL FLOOR PLANS

SHEET #
ME1.1

REGISTER, LOUVER & GRILLE SCHEDULE						
SYMBOL	TYPE	SERVICE	MAX CFM	NOMINAL SIZE	CEILING TYPE	SCHEDULE NOTES
TG-1	SIDEWALL	TRANSFER	265	12X6	N/A	1,2,4
TG-2	SIDEWALL	TRANSFER	400	18X6	N/A	1,2,4
TG-3	SIDEWALL	TRANSFER	1060	48X6	N/A	1,2,4
L-1	SIDEWALL	FRESH AIR	680	36/18	N/A	1,5,7
RG-1	SIDEWALL	RETURN	1400	24/18	N/A	1,4,6
RG-2	FLOOR	RETURN	1000	48/6	N/A	1,2,3
REGISTER, LOUVER AND DIFFUSER SCHEDULE NOTES:						
1. MAXIMUM NC = 25 @ MAXIMUM CFM NOTED.						
2. SHALL BE PRICE LBP 15B OR EQUAL BY OTHER APPROVED MANUFACTURERS. SEE SPECIFICATIONS FOR APPROVED MANUFACTURERS.						
3. FINISH SHALL BE ANODIZED ALUMINUM.						
4. FINISH SHALL BE STANDARD WHITE.						
5. SHALL BE RUSKIN ELF 811 OR EQUAL BY OTHER APPROVED MANUFACTURERS. PROVIDE WITH BIRD SCREEN AND BAKED ENAMEL FINISH WITH COLOR BY ARCHITECT.						
6. SHALL BE PRICE 91L OR EQUAL BY OTHER APPROVED MANUFACTURERS. SEE SPECIFICATIONS FOR APPROVED MANUFACTURERS.						
7. FINISH TO BE SPECIFIED BY ARCHITECT.						

DIFFUSER SCHEDULE							
SYMBOL	TYPE	MAX CFM	FACE SIZE	TYPE	BLOW	PATTERN	SCHEDULE NOTES
D-1 CFM	FLOOR	265	12X6	N/A	1-WAY		2,3,6,7,8
D-2 CFM	FLOOR	400	18X6	N/A	1-WAY		2,3,6,7,8
D-3 CFM	FLOOR	530	24X6	N/A	1-WAY		2,3,6,7,8
D-4 CFM	SIDEWALL	265	12X6	N/A	1-WAY		2,3,5,7,8
D-5 CFM	SIDEWALL	400	18X6	N/A	1-WAY		2,3,5,7,8
D-6 CFM	CEILING	150	6X6	HARD	4-WAY		1,2,3,4,5
D-7 CFM	CEILING	300	9X9	HARD	4-WAY		1,2,3,4,5
D-8 CFM	CEILING	500	12X12	HARD	4-WAY		1,2,3,4,5
1. PROVIDE LAY-IN CEILING AND BORDER / MODULE AS REQUIRED. SEE ARCHITECTURAL CEILING PLANS.							
2. MAXIMUM NC 25 AT CFM LISTED.							
3. PROVIDE TRANSITION TO DIFFUSER NECK SIZE AS REQUIRED TO DUCT WORK SHOWN ON PLAN.							
4. DIFFUSER SHALL BE PRICE MODEL SMD OR EQUAL BY APPROVED MANUFACTURER IN SPECIFICATIONS.							
5. FINISH SHALL BE STANDARD WHITE.							
6. FINISH SHALL BE ANODIZED ALUMINUM.							
7. DIFFUSER SHALL BE PRICE MODEL LBP 15B OR EQUAL BY APPROVED MANUFACTURER IN SPECIFICATIONS.							
8. PROVIDE WITH ADJUSTABLE FACE DAMPER.							

EXHAUST FAN SCHEDULE										
SYMBOL	MANUFACTURER & MODEL No.	SERVES	C.F.M.	STATIC PRESSURE IN. WG.	MAX NOISE SONES	MOTOR			OPER. WT. (LBS)	SCHEDULE NOTES
						V - Ø - Hz	W	RPM		
EF 1	COOK GEMINI GC-320	UPSTAIRS BATHROOM	130	0.3	3.5	115-1-60	54	1365	35	1
EF 2	COOK GEMINI GC-420	BREAK ROOM	300	0.3	3.0	115-1-60	130	1145	40	1
EF 3	COOK GEMINI GC-320	BASEMENT BATHROOM	130	0.3	3.5	115-1-60	54	1365	35	1
1. PROVIDE WITH WALL CAP										

FURNACE SCHEDULE									
SYMBOL	No. REQUIRED	MIN. REQUIRED OUTPUT BTU/HR	MINIMUM S.C.F.M.	EXT. STATIC PRESSURE IN W.G.	MOTOR			MANUF. & MODEL #	SCHEDULE NOTES
					V - Ø - Hz	MIN. HP	RPM		
F 1	5 TON	113,000	2000	.5	120/1/60	1	250-1300	CARRIER 58MVB120-20	1,2,3,4,5,6
F 2	5 TON	113,000	2000	.5	120/1/60	1	250-1300	CARRIER 58MVB120-20	1,2,3,4,5
F 3	3.5 TON	75,000	1395	.5	120/1/60	1/2	250-1300	CARRIER 58MVB080-14	1,2,3,4,5
F 4	3.5 TON	75,000	1395	.5	120/1/60	1/2	250-1300	CARRIER 58MVB080-14	1,2,3,4,5
1. SEA LEVEL RATING.									
2. FURNACE SYMBOLS CORRESPOND WITH CONDENSING UNIT AND COOLING COIL SYMBOLS.									
3. SEE SPECIFICATIONS FOR APPROVED MANUFACTURERS.									
4. CAPACITIES SHOWN ARE FOR INDIVIDUAL FURNACES AND NOT FOR TANDEM TOTALS.									
5. MAY VARY ACCORDING TO MANUFACTURER.									
6. PROVIDE WITH CONDENSATE PUMP.									

AIR COOLED CONDENSING UNIT SCHEDULE									
SYMBOL	MIN SIZE (TONS)	COMPRESSOR MOTOR			SEER	MCA	MOCp	MANUF. & MODEL #	SCHEDULE NOTES
		No.	RLA (EACH)	LRA (EACH)					
CU 1	5	1	26.4	134	13	34.2	50	CARRIER ABA060	1,2,3,4,5
CU 2	5	1	26.4	134	13	34.2	50	CARRIER ABA060	1,2,3,4,5
CU 3	3.5	1	17.9	112	13	23.5	40	CARRIER ABA042	1,2,3,4,5
CU 4	3.5	1	17.9	112	13	23.5	40	CARRIER ABA042	1,2,3,4,5
1. REFRIGERANT R-410A.									
2. AT DESIGN CONDITIONS AND 95° F EAT.									
3. CONDENSING UNIT SYMBOLS CORRESPOND WITH FURNACE SYMBOLS, EXCEPT AS NOTED.									
4. SEE SPECIFICATIONS FOR APPROVED MANUFACTURERS.									
5. ELECTRIC SERVICE: 208/1Ø/60HZ									
6. MAINTAIN 3' CLEARANCE BETWEEN CONDENSING UNITS.									
7. INSTALL CONDENSING UNITS AND ASSOCIATED REFRIGERANT PIPING PER MANUFACTURERS RECOMMENDATIONS.									

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ADDENDUM 1 - JAN. 20, 2009

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DATE
12-19-08

PHASE
CD

DRAWING
MECHANICAL SCHEDULES

SHEET #
ME6.1